

=> s (RNase or nuclease) (5a) (protect?) (p) (biotin or streptavidin or avidin or digoxigenin)

2820 RNASE
3285 NUCLEASE
530084 PROTECT?
7540 BIOTIN
2081 STREPTAVIDIN
3857 AVIDIN
663 DIGOXIGENIN

L1 6 (RNASE OR NUCLEASE) (5A) (PROTECT?) (P) (BIOTIN OR STREPTAVIDIN
IN OR AVIDIN OR DIGOXIGENIN)

=> d 1-6 kwic

US PAT NO: 5,705,333 [IMAGE AVAILABLE] L1: 1 of 6

DETDESC:

DETD(317)

95. Boado, R. J. and Pardridge, W. M. "Complete **protection** of antisense oligonucleotides against serum **nuclease** degradation by an **avidin-biotin** system". Bioconj Chem. 3(6): 519-23, 1992.

US PAT NO: 5,683,867 [IMAGE AVAILABLE] L1: 2 of 6

DETDESC:

DETD(25)

This . . . incorporated to produce irreversible enzyme inhibitors. Use of directed incorporation could be used also for post-SELEX incorporation of fluorescence tags, **biotin**, radiolabel, lipid groups, or to cap the oligonucleotide with a uniquely modified base for **protection** against **nuclease** digestion.

US PAT NO: 5,604,118 [IMAGE AVAILABLE] L1: 3 of 6

DETDESC:

DETD(61)

TABLE 2

EFFICIENCY OF SUBTRACTION OF UNHYBRIDIZED RNAs FOLLOWING RNA:RNA HYBRIDIZATION IN SOLUTION AS QUANTITATED BY BINDING TO EITHER **STREPTAVIDIN**-AGAROSE (PHOTOBIOITYLATED RNA) OR TO HYDROXYLAPATITE (HAP, UNMODIFIED RNA) COLUMNS FOLLOWED BY DOT BLOT HYBRIDIZATION ANALYSES

SUBTRACTION METHOD:

STREPTAVIDIN-AGAROSE

HAP

(TWO CYCLES)

(ONLY ONE CYCLE)

NG 1.5KB AND NEO

BEFORE

AFTER
PERCENT

BEFORE. . . The

hybridization was carried out in a flamesealed, 100 ul capillary. The extent of hybridization was quantitated by **RNase A** and T1

protection

assay. Doublestranded (ds) RNAs are protected whereas singlestranded (ss) RNAs are degraded to acidsoluble nucleotides by digestion with the. . .

US PAT NO: 5,561,043 [IMAGE AVAILABLE]

L1: 4 of 6

DETDESC:

DETD(35)

Biotinylated oligonucleotides, when bound to **avidin** (a protein with nearly identical **biotin**-binding properties and 3-dimensional structure as **streptavidin**), are **protected** in vivo against **nuclease** digestion. Therefore, it is not necessary to modify the oligonucleotides to protect from in vivo enzymatic digestion. This has the. . .

US PAT NO: 5,260,433 [IMAGE AVAILABLE]

L1: 5 of 6

DETDESC:

DETD(152)

In . . . of interferon it has been demonstrated that DEAE-dextran facilitates this operation. It appears that since DEAE-dextran complexes with dsRNA and **protects** it for **nuclease** degradation, thereby enhancing interferon induction. It has also been noted that poly rC:rI is taken into cells more efficiently when. . . agents for the above in accordance with the practices of this invention would include nucleotides wherein the Sig moiety incorporates **biotin** or **streptavidin** or **avidin**.

US PAT NO: 5,241,060 [IMAGE AVAILABLE]

L1: 6 of 6

DETDESC:

DETD(152)

In . . . of interferon it has been demonstrated that DEAE-dextran facilitates this operation. It appears that since DEAE-dextran complexes with dsRNA and **protects** it for **nuclease** degradation, thereby enhancing interferon induction. It has also been noted that poly rC:rI is taken into cells more efficiently when. . . agents for the above in accordance with the practices of this invention would include nucleotides wherein the Sig moiety incorporates **biotin** or **streptavidin** or

=> d his

(FILE 'HOME' ENTERED AT 15:29:19 ON 10 JUN 1998)

INDEX 'IMOBILITY, 2MOBILITY, ABI-INFORM, AEROSPACE, AGRICOLA,
AIDSLINE, ANABSTR, APILIT, APIPAT, AQUASCI, BIBLIODATA,
BIOBUSINESS, BIOSIS, BIOTECHABS, BIOTECHDS, BLLDB, CABA,
CANCERLIT,

CAPLUS, CBNB, CEABA, CEN, CERAB, CHEMSAFE, CIN, CJACS,
COMPENDEX,

.. ENTERED AT 15:29:26 ON 10 JUN 1998

SEA ((RNASE# OR RIBONUCLEASE# OR S1(W)NUCLEASE)(5A)(PROTE

3 FILE AGRICOLA

2 FILE AIDSLINE

29 FILE BIOSIS

1 FILE CABA

6 FILE CANCERLIT

22 FILE CAPLUS

19 FILE CJACS

6 FILE DISSABS

1 FILE DRUGU

22 FILE EMBASE

91 FILE EUROPATFULL

6 FILE LIFESCI

29 FILE MEDLINE

2 FILE NLDB

2 FILE PROMT

19 FILE SCISEARCH

1 FILE TOXLIT

14 FILE TOXLIT

192 FILE USPATFULL

L1 QUE ((RNASE# OR RIBONUCLEASE# OR S1(W) NUCLEASE)(5A)(PROT

FILE 'AGRICOLA, BIOSIS, CANCERLIT, CAPLUS, DISSABS, EMBASE,
LIFESCI, MEDLINE, TOXLIT' ENTERED AT 15:49:04 ON 10 JUN 1998

L2 137 S L1

L3 43 DUPLICATE REMOVE L2 (94 DUPLICATES REMOVED)

=> d 1-43 ti

L3 ANSWER 1 OF 43 CAPLUS COPYRIGHT 1998 ACS

T1 Cloning and expression of chondrocyte protein DNA and identification
and treatment of chondrocyte hypertrophy

L3 ANSWER 2 OF 43 BIOSIS COPYRIGHT 1998 BIOSIS DUPLICATE 1

T1 The bldD gene of Streptomyces coelicolor A3(2): A regulatory gene
involved in morphogenesis and antibiotic production.

L3 ANSWER 3 OF 43 BIOSIS COPYRIGHT 1998 BIOSIS DUPLICATE 2

T1 Expression of types 1, 2, and 3 17-beta-hydroxysteroid dehydrogenase
in subcutaneous abdominal and intra-abdominal adipose tissue of
women.

L3 ANSWER 4 OF 43 DISSABS COPYRIGHT 1998 UMI Company

T1 TRANSCRIPTIONAL REGULATION OF BABOON SURFACTANT

PROTEIN

A GENE EXPRESSION BY THYROID TRANSCRIPTION FACTOR 1

(HUMAN

GROWTH HORMONE, MUTAGENESIS, FUSION GENES)

L3 ANSWER 5 OF 43 DISSABS COPYRIGHT 1998 UMI Company

T1 MOLECULAR ANALYSIS OF A HOMOLOGUE OF THE MOUSE
BETA-AMYLOID

PRECURSOR PROTEIN, APLP2: ISOLATION OF APLP2 CDNA,
CHARACTERIZATION

OF THE APLP2 GENE PROMOTER AND GENE TARGETING OF APLP2

L3 ANSWER 6 OF 43 CAPLUS COPYRIGHT 1998 ACS

T1 A homogeneous method to quantify mRNA levels: a hybridization of
RNase ***protection*** and scintillation proximity assay
technologies

L3 ANSWER 7 OF 43 BIOSIS COPYRIGHT 1998 BIOSIS DUPLICATE 3

T1 Purification of a dichlorophenol-indophenol oxidoreductase from rat
and bovine synaptic membranes: Tight complex association of a
glyceraldehyde-3-phosphate dehydrogenase isoform, TOAD64,
enolase-gamma and aldolase C.

L3 ANSWER 8 OF 43 BIOSIS COPYRIGHT 1998 BIOSIS DUPLICATE 4

T1 Nonisotopic quantitation of mRNA using a novel ***RNase***

protection assay: Measurement of erbB-2 mRNA in tumor cell
lines.

L3 ANSWER 9 OF 43 BIOSIS COPYRIGHT 1998 BIOSIS DUPLICATE 5

T1 ***S1*** ***nuclease*** ***protection*** assay using
streptavidin dynabeads-purified single-stranded DNA.

L3 ANSWER 10 OF 43 DISSABS COPYRIGHT 1998 UMI Company

T1 EFFECTS OF IN VITRO UNIAXIAL CYCLIC STRETCH UPON RAT AORTIC
SMOOTH

MUSCLE CELLS (CELL CULTURE)

L3 ANSWER 11 OF 43 CAPLUS COPYRIGHT 1998 ACS

T1 Methods for detecting mutations in muscle protein genes associated
with hypertrophic cardiomyopathy

L3 ANSWER 12 OF 43 TOXLIT

T1 Methods for detecting mutations in muscle protein genes associated
with hypertrophic cardiomyopathy.

L3 ANSWER 13 OF 43 BIOSIS COPYRIGHT 1998 BIOSIS DUPLICATE 6

T1 Vector-mediated delivery of a polyamide ("peptide") nucleic acid
analogue through the blood-brain barrier in vivo.

L3 ANSWER 14 OF 43 BIOSIS COPYRIGHT 1998 BIOSIS DUPLICATE 7

T1 Expression of the steroidogenic enzyme P450scc in the central and
peripheral nervous systems during rodent embryogenesis.

L3 ANSWER 15 OF 43 BIOSIS COPYRIGHT 1998 BIOSIS DUPLICATE 8

T1 The TTG-2-RBTN2 T cell oncogene encodes two alternative transcripts
from two promoters: The distal promoter is removed by most 11p13
translocations in acute T cell leukaemia's (T-ALL).

L3 ANSWER 16 OF 43 BIOSIS COPYRIGHT 1998 BIOSIS DUPLICATE 9

T1 Glutamic acid decarboxylase-67 (GAD67): Expression relative to GAD65
in human islets and mapping of autoantibody epitopes.

L3 ANSWER 17 OF 43 BIOSIS COPYRIGHT 1998 BIOSIS DUPLICATE 10

T1 Detection of cyclin messenger RNAs by nonradioactive
ribonuclease ***protection*** assay: A comparison of four
detection methods.

L3 ANSWER 18 OF 43 BIOSIS COPYRIGHT 1998 BIOSIS

T1 Differential regulation of inhibin subunit expression in the rat
placenta and decidua.

L3 ANSWER 19 OF 43 DISSABS COPYRIGHT 1998 UMI Company

T1 MOLECULAR CLONING, EXPRESSION AND CHARACTERIZATION OF
TOP(AP): A
MARKER OF CELL POSITION IN THE DEVELOPING VISUAL SYSTEM
(TOP(AP))

L3 ANSWER 20 OF 43 AGRICOLA

DUPLICATE 11

T1 Cloning and analysis of a constitutive heat shock (Cognate) protein
70 gene inducible by L-glutamine.

L3 ANSWER 21 OF 43 BIOSIS COPYRIGHT 1998 BIOSIS DUPLICATE 12

T1 Tissue Distribution of the Human MDR3 P-Glycoprotein.

L3 ANSWER 22 OF 43 CANCERLIT

T1 Mouse monoclonal antibodies directed against a recombinant peptide
homologous to human MDR3 membrane P-glycoprotein (Meeting abstract).

L3 ANSWER 23 OF 43 BIOSIS COPYRIGHT 1998 BIOSIS DUPLICATE 13

T1 ***RIBONUCLEASE*** ***PROTECTION*** ASSAY USE OF
BIOTINYLATED

PROBES FOR THE DETECTION OF TWO MESSENGER RNAS.

L3 ANSWER 24 OF 43 DISSABS COPYRIGHT 1998 UMI Company

T1 ISOLATION AND CHARACTERIZATION OF THE PURKINJE CELL GENE
PCP-4

L3 ANSWER 25 OF 43 BIOSIS COPYRIGHT 1998 BIOSIS DUPLICATE 14

T1 GENOMIC ORGANIZATION AND EXPRESSION OF THE HUMAN
ALPHA-1B-ADRENERGIC
RECEPTOR.

L3 ANSWER 26 OF 43 BIOSIS COPYRIGHT 1998 BIOSIS DUPLICATE 15

T1 FOLLISTATIN GENE EXPRESSION IN THE PITUITARY LOCALIZATION IN
GONADOTROPES AND FOLLICULOSTELLATE CELLS IN DIESTROUS RATS.

L3 ANSWER 27 OF 43 BIOSIS COPYRIGHT 1998 BIOSIS DUPLICATE 16

T1 REGULATION OF THE BIOSYNTHESIS OF SUBGROUP C ADENOVIRUS
PROTEIN IVA2.

L3 ANSWER 28 OF 43 BIOSIS COPYRIGHT 1998 BIOSIS DUPLICATE 17

T1 THE CARBOXY-TERMINAL ZINC FINGERS OF TFIIIA INTERACT WITH THE
TIP OF
HELIX V OF 5S RNA IN THE 7S RIBONUCLEOPROTEIN PARTICLE.

L3 ANSWER 29 OF 43 BIOSIS COPYRIGHT 1998 BIOSIS DUPLICATE 18

T1 THE HIV-1 REV ***PROTEIN*** ***A*** MODEL SYSTEM FOR
COUPLED
RNA TRANSPORT AND TRANSLATION.

L3 ANSWER 30 OF 43 AGRICOLA

DUPLICATE 19

- TI Isolation of a yeast mutant deficient in pyruvate carboxylase activity
- L3 ANSWER 31 OF 43 BIOSIS COPYRIGHT 1998 BIOSIS DUPLICATE 20
 TI EVALUATION OF MURINE INTERLEUKIN 4 IL-4 RECEPTOR EXPRESSION USING ANTI-RECEPTOR MONOCLONAL ANTIBODIES AND ***S1***
 NUCLEASE
 PROTECTION ANALYSES.
- L3 ANSWER 32 OF 43 AGRICOLA DUPLICATE 21
 TI The urea amidolyase (DUR1.2) gene of *Saccharomyces cerevisiae*.
- L3 ANSWER 33 OF 43 DISSABS COPYRIGHT 1998 UMI Company
 TI IDENTIFICATION AND CHARACTERIZATION OF TRANSCRIPTS ENCODING VIRION STRUCTURAL PROTEINS OF HUMAN CYTOMEGALOVIRUS (AD169)
- L3 ANSWER 34 OF 43 BIOSIS COPYRIGHT 1998 BIOSIS DUPLICATE 22
 TI THE E6-E7 PROMOTER OF HUMAN PAPILLOMAVIRUS TYPE 16 IS ACTIVATED IN THE ABSENCE OF E2 PROTEINS BY A SEQUENCE-ABERRANT SP1 DISTAL ELEMENT.
- L3 ANSWER 35 OF 43 BIOSIS COPYRIGHT 1998 BIOSIS DUPLICATE 23
 TI REPLICATION STABILITY AND GENE EXPRESSION OF TOBACCO MOSAIC VIRUS MUTANTS WITH A SECOND 30K ORF.
- L3 ANSWER 36 OF 43 BIOSIS COPYRIGHT 1998 BIOSIS DUPLICATE 24
 TI BACTERIOPHAGE T4 REGA PROTEIN BINDS TO THE SHINE-DALGARNO REGION OF GENE 44 MESSENGER RNA.
- L3 ANSWER 37 OF 43 CAPLUS COPYRIGHT 1998 ACS
 TI Expression of RAPsyn (43K protein) and nicotinic acetylcholine receptor genes is not coordinately regulated in mouse muscle
- L3 ANSWER 38 OF 43 BIOSIS COPYRIGHT 1998 BIOSIS DUPLICATE 25
 TI THE UPSTREAM REGULATORY REGION OF THE HUMAN PAPILLOMA VIRUS 16 CONTAINS AN E2 PROTEIN-INDEPENDENT ENHANCER WHICH IS SPECIFIC FOR CERVICAL CARCINOMA CELLS AND REGULATED BY GLUCOCORTICOID HORMONES.
- L3 ANSWER 39 OF 43 BIOSIS COPYRIGHT 1998 BIOSIS DUPLICATE 26
 TI AN ORDERED PATHWAY OF SMALL NUCLEAR RNP BINDING DURING MAMMALIAN PRE-MESSENGER RNA SPLICING COMPLEX ASSEMBLY.
- L3 ANSWER 40 OF 43 TOXLIT
 TI Interferons as gene activators. Cloning of the 5' terminus and the control segment of an interferon-activated gene.
- L3 ANSWER 41 OF 43 BIOSIS COPYRIGHT 1998 BIOSIS DUPLICATE 27
 TI DECOMPLEMENTATION ANTIGEN A POSSIBLE DETERMINANT OF STAPHYLOCOCCAL PATHOGENICITY.
- L3 ANSWER 42 OF 43 BIOSIS COPYRIGHT 1998 BIOSIS DUPLICATE 28
 TI EXPRESSION AND PARTIAL DNA SEQUENCE OF THE CHICKEN BETA-H GLOBIN GENE.
- L3 ANSWER 43 OF 43 BIOSIS COPYRIGHT 1998 BIOSIS DUPLICATE 29
 TI PHYSICAL CHARACTERIZATION OF A RIBOSOMAL NUCLEO PROTEIN COMPLEX.
- => d 6,8,9,17,23 bib ab
- L3 ANSWER 6 OF 43 CAPLUS COPYRIGHT 1998 ACS
 AN 1997:466289 CAPLUS
 DN 127:186226
 TI A homogeneous method to quantify mRNA levels: a hybridization of ***RNase*** ***protection*** and scintillation proximity assay technologies
 AU Kenrick, Michael K.; Jiang, Lixin; Potts, Cheryl L.; Owen, Penny J.; Shuey, David J.; Econome, Jason G.; Anson, John G.; Quinet, Elaine M.
 CS Cardiff Laboratories, Amersham International plc, Cardiff, CF4 7YT, UK
 SO Nucleic Acids Res. (1997), 25(14), 2947-2948
 CODEN: NARHAD; ISSN: 0305-1048
 PB Oxford University Press
 DT Journal
 LA English
 AB A novel method to measure mRNA levels has been developed by combining the detection capabilities of ***RNase***
- ***protection*** (RPA) with the quantification advantages of scintillation proximity assay (SPA) technol. Sample processing is reduced to the addn. of a single reagent post RNase digestion. As a model system, the inducible expression of rat apolipoprotein-A1 mRNA has been measured by both traditional gel-based RPAs and the SPA-based RPA assay. Results demonstrate that the ***RNase*** ***protection*** proximity assay (RiPPA) faithfully reproduces the gel-based results and is at least as sensitive as many existing methods.
- L3 ANSWER 8 OF 43 BIOSIS COPYRIGHT 1998 BIOSIS DUPLICATE 4
 AN 97:19261 BIOSIS
 DN 99318464
 TI Nonisotopic quantitation of mRNA using a novel ***RNase*** ***protection*** assay: Measurement of erbB-2 mRNA in tumor cell lines.
 AU Chan S D H; Dill K; Blomdahl J; Wada H G
 CS Molecular Devices Corp., Sunnyvale, CA 94089, USA
 SO Analytical Biochemistry 242 (2). 1996. 214-220. ISSN: 0003-2697
 LA English
 AB We have developed a nonisotopic ***RNase*** ***protection*** assay using RNA probes that are dual-labeled with ***biotin*** and fluorescein for detection. This system utilizes capture of the protected RNA probe hybrids to ***streptavidin*** -coated membranes attached to plastic dipsticks, complexing of anti-fluorescein-urease conjugate with the labeled RNA probe, and quantitative detection of the membrane-bound complex by a potentiometric silicon sensor. The dual-label ***RNase*** ***protection*** (RP) assay was capable of measuring beta-actin mRNA in cellular RNA samples at the 27- to 45-amol level (10-17 pg) with high precision (%CV lt 7). We have used this method to quantitate the levels of erbB-2 mRNA in the human tumor cell lines SKBR-3, SKOV-3, and MCF-7. The levels of erbB-2 mRNA in these cells were 105, 190, and 0.9 amol per microgram of cellular RNA, respectively. The dual-label RP method should be useful for measuring the mRNA expression for other erbB-2 homologs such as erbB-3 and erbB-4 in tumor cells and tissues and can be a generally useful mRNA quantitative method for laboratories wishing to minimize radioisotope use.
- L3 ANSWER 9 OF 43 BIOSIS COPYRIGHT 1998 BIOSIS DUPLICATE 5
 AN 96:218549 BIOSIS
 DN 98774678
 TI ***S1*** ***nuclease*** ***protection*** assay using ***streptavidin*** dynabeads-purified single-stranded DNA.
 AU Cammas F M; Clark A J L
 CS Dep. Chem. Endocrinol., St. Bartholomew's Hosp., Med. Coll., West Smithfield, London EC1A 7BE, UK
 SO Analytical Biochemistry 236 (1). 1996. 182-184. ISSN: 0003-2697
 LA English
- L3 ANSWER 17 OF 43 BIOSIS COPYRIGHT 1998 BIOSIS DUPLICATE 10
 AN 96:21386 BIOSIS
 DN 98593521
 TI Detection of cyclin messenger RNAs by nonradioactive ***ribonuclease*** ***protection*** assay: A comparison of four detection methods.
 AU Nass S J; Dickson R B
 CS Lombardi Cancer Cent., Georgetown Univ., 3970 Reservoir Road N.W., Washington, DC 20007, USA
 SO Biotechniques 19 (5). 1995. 772-774, 776, 778. ISSN: 0736-6205
 LA English
 AB Stable, nonradioactive riboprobes were used in ***ribonuclease*** ***protection*** assays to monitor the changes in cyclin mRNA expression during cell cycle progression in human mammary epithelial cells. Probes labeled with ***biotin*** demonstrated sufficient sensitivity (comparable to 32P) to detect these low-abundance mRNAs and thus offer a safe and easy alternative to traditional radioactive assays. Three detection systems based on chemiluminescence generated by horseradish peroxidase or alkaline phosphatase were compared for sensitivity, background and ease of use.
- L3 ANSWER 23 OF 43 BIOSIS COPYRIGHT 1998 BIOSIS DUPLICATE 13
 TI ***RIBONUCLEASE*** ***PROTECTION*** ASSAY USE OF BIOTINYLATED PROBES FOR THE DETECTION OF TWO MESSENGER RNAS.
 AU TURNBOW M A; GARNER C W
 CS DEP. BIOCHEM. MOL. BIOL., TEXAS TECH UNIV. HEALTH SCI. CENT., 3601 FOURTH ST., LUBBOCK, TX 79430, USA.
 SO BIOTECHNIQUES 15 (2). 1993. 267-270. CODEN: BTNQDO ISSN: 0736-6205
 LA English
 AB A nonradioactive modification of the traditional ***ribonuclease*** ***protection*** assay is described and applied to the detection of two messenger RNAs. The biotinylated probes are stable and easy to handle, which permits the processing of large numbers of samples. Chemiluminescence is generated with ***streptavidin*** -conjugated alkaline phosphatase and provides sensitivity equal to or greater than that achieved with the radioactive detection method.

US PAT NO: 5,763,181 [IMAGE AVAILABLE] L1: 1 of 75
DATE ISSUED: Jun. 9, 1998
TITLE: Continuous fluorometric assay for detecting nucleic acid cleavage
INVENTOR: Myun Ki Han, Silver Spring, MD
S. Paul Lee, Phoenix, MD
Jack G. Chirikjian, Potomac, MD
ASSIGNEE: Georgetown University, Washington, DC (U.S. corp.)
APPL-NO: 08/706,135
DATE FILED: Aug. 30, 1996
ART-UNIT: 189
PRIM-EXMR: Stephanie W. Zitomer
ASST-EXMR: **Jeffrey Fredman**
LEGAL-REP: Sterne, Kessler, Goldstein & Fox P.L.L.C.

US PAT NO: 5,760,180 [IMAGE AVAILABLE] L1: 2 of 75
DATE ISSUED: Jun. 2, 1998
TITLE: DNA encoding precursor of interleukin-1 beta. converting enzyme-related cysteine proteinase III (ICE.sub.rel -III)
INVENTOR: Donald W. Nicholson, Montreal, Canada
Amberreen Ali, Pierrefonds, Canada
Neil A. Munday, Guelph, Canada
John P. Vaillancourt, Pierrefonds, Canada
ASSIGNEE: Merck Frosst Canada, Inc., Quebec, Canada (foreign corp.)
APPL-NO: 08/721,985
DATE FILED: Dec. 9, 1996
ART-UNIT: 189
PRIM-EXMR: W. Gary Jones
ASST-EXMR: **Jeffrey Fredman**
LEGAL-REP: Joseph A. Coppola, Jack L. Tribble

US PAT NO: 5,759,773 [IMAGE AVAILABLE] L1: 3 of 75
DATE ISSUED: Jun. 2, 1998
TITLE: Sensitive nucleic acid sandwich hybridization assay
INVENTOR: Sanjay Tyagi, New York, NY
Fred R. Kramer, Riverdale, NY
Paul M. Lizardi, Privada Cerritos, Mexico
Ulfd Landegren, Uppsala, Sweden
Herman J. Blok, AD veenendaal, Netherlands
ASSIGNEE: The Public Health Research Institute of the City of New York, Inc., New York, NY (U.S. corp.)
APPL-NO: 08/393,888
DATE FILED: Feb. 24, 1995
ART-UNIT: 189
PRIM-EXMR: Stephanie W. Zitomer
ASST-EXMR: **Jeffrey Fredman**
LEGAL-REP: Fish & Richardson P.C.

US PAT NO: 5,753,516 [IMAGE AVAILABLE] L1: 4 of 75
DATE ISSUED: May 19, 1998
TITLE: Screening method for ligands of the EBI-1 receptor
INVENTOR: Wyrtia E. Heagy, 536 Janalyn Cir., Golden Valley, MN 55427
Robert W. Finberg, 48 Spring La., Canton, MA 02021
APPL-NO: 08/383,751
DATE FILED: Feb. 3, 1995
ART-UNIT: 189
PRIM-EXMR: W. Gary Jones
ASST-EXMR: **Jeffrey Fredman**

US PAT NO: 5,750,729 [IMAGE AVAILABLE] L1: 5 of 75
DATE ISSUED: May 12, 1998
TITLE: Compounds and methods for making and using same
INVENTOR: Petr Alexander, San Mateo, CA
Ernest J. Prisbe, Los Altos, CA
ASSIGNEE: Gilead Sciences, Inc., Foster City, CA (U.S. corp.)
APPL-NO: 08/806,575
DATE FILED: Feb. 25, 1997
ART-UNIT: 189
PRIM-EXMR: W. Gary Jones
ASST-EXMR: **Jeffrey Fredman**
LEGAL-REP: Max D. Hensley

US PAT NO: 5,747,252 [IMAGE AVAILABLE] L1: 6 of 75
DATE ISSUED: May 5, 1998
TITLE: Nucleic acid probes and amplification oligonucleotides for Neisseria species
INVENTOR: Yeasing Yang, San Diego, CA
Gary Bee, Vista, CA
Sherrol McDonough, San Diego, CA
ASSIGNEE: Gen-Probe Incorporated, San Diego, CA (U.S. corp.)
APPL-NO: 08/484,607
DATE FILED: Jun. 7, 1995
ART-UNIT: 189

PRIM-EXMR: W. Gary Jones
ASST-EXMR: **Jeffrey Fredman**
LEGAL-REP: Lyon & Lyon LLP

US PAT NO: 5,747,247 [IMAGE AVAILABLE] L1: 7 of 75
DATE ISSUED: May 5, 1998
TITLE: Spectroscopic helicase assay
INVENTOR: Stephen C. Kowalczykowski, Davis, CA
Angela K. Eggleston, Davis, CA
ASSIGNEE: The Regents of The University of California, Oakland, CA (U.S. corp.)
APPL-NO: 08/280,020
DATE FILED: Jul. 25, 1994
ART-UNIT: 189
PRIM-EXMR: W. Gary Jones
ASST-EXMR: **Jeffrey Fredman**
LEGAL-REP: Richard Aron Osman

US PAT NO: 5,744,298 [IMAGE AVAILABLE] L1: 8 of 75
DATE ISSUED: Apr. 28, 1998
TITLE: DNA sequences which encode immunoreactive HCMV-specific peptides
INVENTOR: Werner Stuber, Lahntal, Federal Republic of Germany
Leszek Wieczorek, Marburg, Federal Republic of Germany
Robert Ziegelmaier, Marburg, Federal Republic of Germany
ASSIGNEE: Behringwerke Aktiengesellschaft, Marburg, Federal Republic of Germany (foreign corp.)
APPL-NO: 08/460,874
DATE FILED: Jun. 5, 1995
ART-UNIT: 189
PRIM-EXMR: W. Gary Jones
ASST-EXMR: **Jeffrey Fredman**
LEGAL-REP: Finnegan, Henderson, Farabow, Garrett & Dunner, L.L.P.

US PAT NO: 5,741,644 [IMAGE AVAILABLE] L1: 9 of 75
DATE ISSUED: Apr. 21, 1998
TITLE: DNA sequencing by extension of probe chip immobilized oligonucleotides
INVENTOR: Hideki Kambara, Hachioji, Japan
Kazunori Okano, Shiki, Japan
Hisanori Nasu, Yokohama, Japan
ASSIGNEE: Hitachi, Ltd., Tokyo, Japan (foreign corp.)
APPL-NO: 08/465,181
DATE FILED: Jun. 5, 1995
ART-UNIT: 189
PRIM-EXMR: W. Gary Jones
ASST-EXMR: **Jeffrey Fredman**
LEGAL-REP: Antonelli, Terry, Stout & Kraus, LLP

US PAT NO: 5,739,311 [IMAGE AVAILABLE] L1: 10 of 75
DATE ISSUED: Apr. 14, 1998
TITLE: Enzymatic synthesis of phosphorothioate oligonucleotides using restriction endonucleases
INVENTOR: David Bruce Lackey, San Diego, CA
Nanibhushan Dattagupta, San Diego, CA
Daniel Louis Kacian, San Diego, CA
ASSIGNEE: Gen-Probe Incorporated, San Diego, CA (U.S. corp.)
APPL-NO: 08/476,625
DATE FILED: Jun. 7, 1995
ART-UNIT: 187
PRIM-EXMR: W. Gary Jones
ASST-EXMR: **Jeffrey Fredman**
LEGAL-REP: Charles B. Cappellari, Carlos A. Fisher

US PAT NO: 5,736,332 [IMAGE AVAILABLE] L1: 11 of 75
DATE ISSUED: Apr. 7, 1998
TITLE: Method of determining the sequence of nucleic acids employing solid-phase particles carrying transponders
INVENTOR: Wlodek Mandecki, 516 Hemlock La., Libertyville, IL 60048
APPL-NO: 08/564,860
DATE FILED: Nov. 30, 1995
ART-UNIT: 189
PRIM-EXMR: Stephanie W. Zitomer
ASST-EXMR: **Jeffrey Fredman**
LEGAL-REP: Brinks Gilson & Lione

US PAT NO: 5,733,753 [IMAGE AVAILABLE] L1: 12 of 75
DATE ISSUED: Mar. 31, 1998
TITLE: Amplification of genomic DNA by site specific integration of a selectable marker construct
INVENTOR: Steen Troels J.o slashed.rgensen, Aller.o slashed.ed, Denmark
ASSIGNEE: Novo Nordisk A/S, Bagsvaerd, Denmark (foreign corp.)
APPL-NO: 08/751,282

DATE FILED: Nov. 18, 1996
ART-UNIT: 189
PRIM-EXMR: Stephanie W. Zitomer
ASST-EXMR: **Jeffrey Fredman**
LEGAL-REP: Steve T. Zelson, Elias J. Lambiris

US PAT NO: 5,733,752 [IMAGE AVAILABLE] L1: 13 of 75
DATE ISSUED: Mar. 31, 1998
TITLE: Detection of nucleic acids in cells by thermophilic strand displacement amplification
INVENTOR: Kenton L. Lohman, San Jose, CA
Natalie V. Ostrerova, Mountain View, CA
Mark Van Cleve, Durham, NC
Robert Alan Reid, Durham, NC
ASSIGNEE: Becton, Dickinson and Company, Franklin Lakes, NJ (U.S. corp.)
APPL-NO: 08/531,749
DATE FILED: Sep. 21, 1995
ART-UNIT: 189
PRIM-EXMR: W. Gary Jones
ASST-EXMR: **Jeffrey Fredman**
LEGAL-REP: Donna R. Fugit

US PAT NO: 5,733,724 [IMAGE AVAILABLE] L1: 14 of 75
DATE ISSUED: Mar. 31, 1998
TITLE: Oligonucleotides for the detection of enterobacteriaceae selected from salmolyisin
INVENTOR: Andreas Bubert, Gerbrunn, Federal Republic of Germany
Werner Goebel, Gerbrunn, Federal Republic of Germany
Monika Goetz, Gerbrunn, Federal Republic of Germany
Albrecht Ludwig, Wurzburg, Federal Republic of Germany
Peter Schubert, Darmstadt, Federal Republic of Germany
Siegfried Neumann, Seeheim-Jugenheim, Federal Republic of Germany
ASSIGNEE: Merck Patent Gesellschaft Mit Beschränkter Haftung, Darmstadt, Federal Republic of Germany (foreign corp.)
APPL-NO: 08/332,747
DATE FILED: Nov. 1, 1994
ART-UNIT: 187
PRIM-EXMR: George C. Elliott
ASST-EXMR: **Jeffrey Fredman**
LEGAL-REP: Millen, White, Zelano & Branigan, P.C.

US PAT NO: 5,728,526 [IMAGE AVAILABLE] L1: 15 of 75
DATE ISSUED: Mar. 17, 1998
TITLE: Method for analyzing a nucleotide sequence
INVENTOR: Albert L. George, Jr., Gaithersburg, MD
Satish K. Bhatnagar, Gaithersburg, MD
Irina Nazarenko, Gaithersburg, MD
ASSIGNEE: Oncor, Inc., Gaithersburg, MD (U.S. corp.)
APPL-NO: 08/472,239
DATE FILED: Jun. 7, 1995
ART-UNIT: 189
PRIM-EXMR: W. Gary Jones
ASST-EXMR: **Jeffrey Fredman**
LEGAL-REP: Glenn E. Karta

US PAT NO: 5,723,296 [IMAGE AVAILABLE] L1: 16 of 75
DATE ISSUED: Mar. 3, 1998
TITLE: Amplification and detection of mycobacterial DNA K nucleic acids
INVENTOR: Colleen Marie Nycz, Raleigh, NC
James G. Nadeau, Chapel Hill, NC
Patricia Brinkley Scott, Apex, NC
Daryl Dee Shank, BelAir, MD
Patricia Anne Spears, Raleigh, NC
ASSIGNEE: Becton, Dickinson and Company, Franklin Lakes, NJ (U.S. corp.)
APPL-NO: 08/644,729
DATE FILED: May 10, 1996
ART-UNIT: 189
PRIM-EXMR: W. Gary Jones
ASST-EXMR: **Jeffrey Fredman**
LEGAL-REP: Donna R. Fugit

US PAT NO: 5,721,098 [IMAGE AVAILABLE] L1: 17 of 75
DATE ISSUED: Feb. 24, 1998
TITLE: Comparative genomic hybridization
INVENTOR: Daniel Pinkel, Walnut Creek, CA
Joe W. Gray, San Francisco, CA
Anne Kallioniemi, Tampere, Finland
Olli-Pekka Kallioniemi, Tampere, Finland
Frederic Waldman, San Francisco, CA
ASSIGNEE: The Regents of the University of California, Alameda, CA (U.S. corp.)

APPL-NO: 08/468,629
DATE FILED: Jun. 6, 1995
ART-UNIT: 187
PRIM-EXMR: W. Gary Jones
ASST-EXMR: **Jeffrey Fredman**
LEGAL-REP: Burns, Doane, Swecker & Mathis, L.L.P.

US PAT NO: 5,716,824 [IMAGE AVAILABLE] L1: 18 of 75
DATE ISSUED: Feb. 10, 1998
TITLE: 2'-O-alkylthioalkyl and 2-C-alkylthioalkyl-containing enzymatic nucleic acids (ribozymes)
INVENTOR: Leonid Beigelman, Longmont, CO
Alex Karpeisky, Boulder, CO
ASSIGNEE: Ribozyne Pharmaceuticals, Inc., Boulder, CO (U.S. corp.)
APPL-NO: 08/426,124
DATE FILED: Apr. 20, 1995
ART-UNIT: 189
PRIM-EXMR: Scott W. Houtteman
ASST-EXMR: **Jeffrey Fredman**
LEGAL-REP: Lyon & Lyon LLP

US PAT NO: 5,708,160 [IMAGE AVAILABLE] L1: 19 of 75
DATE ISSUED: Jan. 13, 1998
TITLE: HSP-60 genomic locus and primers for species identification
INVENTOR: Swee Han Goh, Vancouver, Canada
Anthony W. Chow, West Vancouver, Canada
Sean Hemmingsen, Saskatoon, Canada
ASSIGNEE: The National Research Council, Ottawa, Canada (foreign corp.)
University of British Columbia, Vancouver, Canada (foreign corp.)
APPL-NO: 08/429,121
DATE FILED: Apr. 26, 1995
ART-UNIT: 189
PRIM-EXMR: W. Gary Jones
ASST-EXMR: **Jeffrey Fredman**
LEGAL-REP: Fish & Richardson, P.C.

US PAT NO: 5,705,627 [IMAGE AVAILABLE] L1: 20 of 75
DATE ISSUED: Jan. 6, 1998
TITLE: Detection of human papillomavirus by the polymerase chain reaction using specific L1, and E6 probes
INVENTOR: M. Michele Manos, Richmond, CA
Heidi M. Bauer, Oakland, CA
Catherine E. Greer, Oakland, CA
Robert M. Resnick, Richmond, CA
Yi Ting, Berkeley, CA
ASSIGNEE: Roche Molecular Systems, Inc., Branchburg, NJ (U.S. corp.)
APPL-NO: 08/452,055
DATE FILED: May 26, 1995
ART-UNIT: 189
PRIM-EXMR: W. Gary Jones
ASST-EXMR: **Jeffrey Fredman**
LEGAL-REP: George W. Johnston, Patricia S. Rocha-Tramalon, Stacey R. Sias

US PAT NO: 5,700,683 [IMAGE AVAILABLE] L1: 21 of 75
DATE ISSUED: Dec. 23, 1997
TITLE: Virulence-attenuating genetic deletions deleted from mycobacterium BCG
INVENTOR: Charles Kendall Stover, Mercer Island, WA
Gregory G. Mahairas, Seattle, WA
ASSIGNEE: PathoGenesis Corporation, Seattle, WA (U.S. corp.)
APPL-NO: 08/390,878
DATE FILED: Feb. 17, 1995
ART-UNIT: 189
PRIM-EXMR: George C. Elliott
ASST-EXMR: **Jeffrey Fredman**
LEGAL-REP: Townsend and Townsend and Crew LLP

US PAT NO: 5,698,686 [IMAGE AVAILABLE] L1: 22 of 75
DATE ISSUED: Dec. 16, 1997
TITLE: Yeast telomerase compositions
INVENTOR: Daniel E. Gottschling, Chicago, IL
Miriam S. Singer, Chicago, IL
ASSIGNEE: Arch Development Corporation, Chicago, IL (U.S. corp.)
APPL-NO: 08/431,080
DATE FILED: Apr. 28, 1995
ART-UNIT: 189
PRIM-EXMR: W. Gary Jones
ASST-EXMR: **Jeffrey Fredman**
LEGAL-REP: Arnold, White & Durkee

US PAT NO: 5,698,400 [IMAGE AVAILABLE] L1: 23 of 75
DATE ISSUED: Dec. 16, 1997
TITLE: Detection of mutation by resolvase cleavage
INVENTOR: Richard G. H. Cotton, Melbourne, Australia
Rima Youil, Melbourne, Australia
Borries W. Kemper, Koln, Federal Republic of Germany
ASSIGNEE: Avitech Diagnostics, Inc., Malvern, PA (U.S. corp.)
APPL-NO: 08/714,626
DATE FILED: Sep. 16, 1996
ART-UNIT: 189
PRIM-EXMR: W. Gary Jones
ASST-EXMR: **Jeffrey Fredman**
LEGAL-REP: Clark & Elbing LLP

US PAT NO: 5,698,397 [IMAGE AVAILABLE] L1: 24 of 75
DATE ISSUED: Dec. 16, 1997
TITLE: Up-converting reporters for biological and other assays
using laser excitation techniques
INVENTOR: David A. Zarling, Menlo Park, CA
Michel J. Rossi, Lausanne, Switzerland
Norman A. Peppers, Belmont, CA
James Kane, Lawrenceville, NJ
Gregory W. Faris, Menlo Park, CA
Mark J. Dyer, San Jose, CA
Steve Y. Ng, San Francisco, CA
Luke V. Schneider, Half Moon Bay, CA
ASSIGNEE: SRI International, Menlo Park, CA (U.S. corp.)
APPL-NO: 08/482,203
DATE FILED: Jun. 7, 1995
ART-UNIT: 189
PRIM-EXMR: W. Gary Jones
ASST-EXMR: **Jeffrey Fredman**
LEGAL-REP: Morgan, Lewis & Bockius LLP

US PAT NO: 5,698,394 [IMAGE AVAILABLE] L1: 25 of 75
DATE ISSUED: Dec. 16, 1997
TITLE: Nucleotide sequences and methods for detection of
Serpulina hyodysenteriae
INVENTOR: Gerald E. Duhamel, Lincoln, NE
Robert Elder, Lincoln, NE
ASSIGNEE: Board of Regents of the University of Nebraska, NE (U.S. corp.)
APPL-NO: 08/252,492
DATE FILED: Jun. 1, 1994
ART-UNIT: 189
PRIM-EXMR: George C. Elliott
ASST-EXMR: **Jeffrey Fredman**
LEGAL-REP: Suiter & Associates PC

US PAT NO: 5,691,146 [IMAGE AVAILABLE] L1: 26 of 75
DATE ISSUED: Nov. 25, 1997
TITLE: Methods for combined PCR amplification and hybridization
probing using doubly labeled fluorescent probes
INVENTOR: Paul E. Mayrand, Pacifica, CA
ASSIGNEE: The Perkin Elmer Corporation, Foster City, CA (U.S. corp.)
APPL-NO: 08/710,075
DATE FILED: Sep. 11, 1996
ART-UNIT: 189
PRIM-EXMR: W. Gary Jones
ASST-EXMR: **Jeffrey Fredman**
LEGAL-REP: Paul D. Grossman

US PAT NO: 5,690,894 [IMAGE AVAILABLE] L1: 27 of 75
DATE ISSUED: Nov. 25, 1997
TITLE: High density array fabrication and readout method for a
fiber optic biosensor
INVENTOR: Daniel Pinkel, Walnut Creek, CA
Joe Gray, San Francisco, CA
ASSIGNEE: The Regents of the University of California, Oakland, CA (U.S. corp.)
APPL-NO: 08/448,043
DATE FILED: May 23, 1995
ART-UNIT: 189
PRIM-EXMR: George G. Elliott
ASST-EXMR: **Jeffrey Fredman**
LEGAL-REP: Townsend and Townsend and Crew LLP

US PAT NO: 5,681,702 [IMAGE AVAILABLE] L1: 28 of 75
DATE ISSUED: Oct. 28, 1997
TITLE: Reduction of nonspecific hybridization by using novel
base-pairing schemes
INVENTOR: Mark L. Collins, Walnut Creek, CA
Thomas Horn, Berkeley, CA
Patrick J. Sheridan, San Leandro, CA
Brian D. Warner, Martinez, CA

Michael S. Urdea, Alamo, CA
ASSIGNEE: Chiron Corporation, Emeryville, CA (U.S. corp.)
APPL-NO: 08/298,073
DATE FILED: Aug. 30, 1994
ART-UNIT: 189
PRIM-EXMR: George G. Elliott
ASST-EXMR: **Jeffrey Fredman**
LEGAL-REP: Kenneth M. Goldman, Robert P. Blackburn

US PAT NO: 5,679,553 [IMAGE AVAILABLE] L1: 29 of 75
DATE ISSUED: Oct. 21, 1997
TITLE: Process for rendering a nucleic acid amplification reaction
product incapable of being a target for further
amplification, a diagnostic assay employing said process
INVENTOR: Bob Van Gemen, Bostel, Netherlands
Adriana Frederieke Schukink, Houten, Netherlands
ASSIGNEE: Akzo Nobel N.V., Arnhem, Netherlands (foreign corp.)
APPL-NO: 08/519,478
DATE FILED: Aug. 25, 1995
ART-UNIT: 189
PRIM-EXMR: W. Gary Jones
ASST-EXMR: **Jeffrey Fredman**
LEGAL-REP: Mary E. Gormley

US PAT NO: 5,679,510 [IMAGE AVAILABLE] L1: 30 of 75
DATE ISSUED: Oct. 21, 1997
TITLE: Quantitative detection of specific nucleic acid sequences
using lambdaoid bacteriophages linked by oligonucleotides
to solid support
INVENTOR: Bryan L. Ray, Burlington, MA
Edmund C. C. Lin, Boston, MA
ASSIGNEE: Hybridon, Inc., Cambridge, MA (U.S. corp.)
APPL-NO: 08/368,870
DATE FILED: Jan. 5, 1995
ART-UNIT: 189
PRIM-EXMR: George G. Elliott
ASST-EXMR: **Jeffrey Fredman**
LEGAL-REP: Ann-Louise Hale and Dorr LLP Kerner, Ph.D.

US PAT NO: 5,674,856 [IMAGE AVAILABLE] L1: 31 of 75
DATE ISSUED: Oct. 7, 1997
TITLE: Modified oligodeoxyribonucleotides
INVENTOR: Hidehiko Furukawa, Tokyo, Japan
Kenji Momota, Tokyo, Japan
Hitoshi Hotoda, Tokyo, Japan
Makoto Koizumi, Tokyo, Japan
Masakatsu Kaneko, Tokyo, Japan
ASSIGNEE: Sankyo Company, Limited, Tokyo, Japan (foreign corp.)
APPL-NO: 08/393,510
DATE FILED: Feb. 23, 1995
ART-UNIT: 189
PRIM-EXMR: George C. Elliott
ASST-EXMR: **Jeffrey Fredman**
LEGAL-REP: Frislauf, Holtz, Goodman, Langer & Chick, P.C.

US PAT NO: 5,667,969 [IMAGE AVAILABLE] L1: 32 of 75
DATE ISSUED: Sep. 16, 1997
TITLE: Alteration of sequence of a deleterious target molecule by
ribozyme catalyzed trans-splicing
INVENTOR: Bruce A. Sullenger, Westminster, CO
Thomas R. Cech, Boulder, CO
ASSIGNEE: University Research Corporation, Boulder, CO (U.S. corp.)
APPL-NO: 08/152,450
DATE FILED: Nov. 12, 1993
ART-UNIT: 187
PRIM-EXMR: Stephanie W. Zitomer
ASST-EXMR: **Jeffrey Fredman**
LEGAL-REP: Lyon & Lyon

US PAT NO: 5,665,874 [IMAGE AVAILABLE] L1: 33 of 75
DATE ISSUED: Sep. 9, 1997
TITLE: Cancer related antigen
INVENTOR: Francis P. Kuhajda, Lutherville, MD
Gary R. Pasternack, Baltimore, MD
ASSIGNEE: John Hopkins University, Baltimore, MD (U.S. corp.)
APPL-NO: 08/469,005
DATE FILED: Jun. 5, 1995
ART-UNIT: 189
PRIM-EXMR: George C. Elliott
ASST-EXMR: **Jeffrey Fredman**
LEGAL-REP: Baker & Botts, L.L.P.

US PAT NO: 5,665,572 [IMAGE AVAILABLE] L1: 34 of 75
DATE ISSUED: Sep. 9, 1997

TITLE: Polymerase chain reaction amplification method using a single primer which randomly anneals
INVENTOR: Joh-E Ikeda, Ibaraki, Japan
Shinji Hadano, Kanagawa, Japan
Haruhiko Yokoi, Kanagawa, Japan
ASSIGNEE: Research Development Corporation of Japan, Tokyo, Japan (foreign corp.)
APPL-NO: 08/294,606
DATE FILED: Aug. 23, 1994
ART-UNIT: 189
PRIM-EXMR: George C. Elliott
ASST-EXMR: **Jeffrey Fredman**
LEGAL-REP: Wenderoth, Lind & Ponack

US PAT NO: 5,665,549 [IMAGE AVAILABLE] L1: 35 of 75
DATE ISSUED: Sep. 9, 1997
TITLE: Comparative genomic hybridization (CGH)
INVENTOR: Daniel Pinkel, Walnut Creek, CA
Joe W. Gray, San Francisco, CA
Anne Kallioniemi, Tampere, Finland
Olli-Pekka Kallioniemi, Tampere, Finland
Frederic Waldman, San Francisco, CA
ASSIGNEE: The Regents of the University of California, Oakland, CA (U.S. corp.)
APPL-NO: 08/466,122
DATE FILED: Jun. 6, 1995
ART-UNIT: 189
PRIM-EXMR: George C. Elliott
ASST-EXMR: **Jeffrey Fredman**
LEGAL-REP: Burns, Doane, Swecker & Mathis, L.L.P.

US PAT NO: 5,659,023 [IMAGE AVAILABLE] L1: 36 of 75
DATE ISSUED: Aug. 19, 1997
TITLE: Nucleotide analogues
INVENTOR: Petr Alexander, San Mateo, CA
Ernest J. Prisbe, Los Altos, CA
ASSIGNEE: Gilead Sciences, Inc., Foster City, CA (U.S. corp.)
APPL-NO: 08/384,504
DATE FILED: Feb. 1, 1995
ART-UNIT: 189
PRIM-EXMR: George C. Elliott
ASST-EXMR: **Jeffrey Fredman**
LEGAL-REP: Max D. Hensley

US PAT NO: 5,656,429 [IMAGE AVAILABLE] L1: 37 of 75
DATE ISSUED: Aug. 12, 1997
TITLE: Polynucleotide and protein analysis method using magnetizable moieties
INVENTOR: Lonnie W. Adelman, 4565 - 62nd St., San Diego, CA 92115
APPL-NO: 08/316,772
DATE FILED: Oct. 3, 1994
ART-UNIT: 189
PRIM-EXMR: George G. Elliott
ASST-EXMR: **Jeffrey Fredman**
LEGAL-REP: McAulay Fisher Nissen Goldberg & Kiel, LLP

US PAT NO: 5,654,145 [IMAGE AVAILABLE] L1: 38 of 75
DATE ISSUED: Aug. 5, 1997
TITLE: Trophinin and trophinin-assisting nucleic acids and methods of detection thereof
INVENTOR: Michiko N. Fukuda, San Diego, CA
ASSIGNEE: La Jolla Cancer Research Foundation, La Jolla, CA (U.S. corp.)
APPL-NO: 08/439,818
DATE FILED: May 12, 1995
ART-UNIT: 187
PRIM-EXMR: Stephanie W. Zitomer
ASST-EXMR: **Jeffrey Fredman**
LEGAL-REP: Campbell & Flores, LLP

US PAT NO: 5,652,107 [IMAGE AVAILABLE] L1: 39 of 75
DATE ISSUED: Jul. 29, 1997
TITLE: Diagnostic assays and kits for RNA using RNA binary probes and a ribozyme ligase
INVENTOR: Paul M. Lizardi, Colonia Rancho Cortez Cuernavaca, Mexico
Sanjay Tyagi, New York, NY
Ulf D. Landegren, Uppsala, Sweden
Fred R. Kramer, Riverdale, NY
Jack W. Szostak, Boston, MA
ASSIGNEE: The Public Health Research Institute of the City of New York, Inc., New York, NY (U.S. corp.)
APPL-NO: 08/683,045
DATE FILED: Jul. 15, 1996
ART-UNIT: 189
PRIM-EXMR: George C. Elliott

ASST-EXMR: **Jeffrey Fredman**
LEGAL-REP: Fish & Richardson P.C.

US PAT NO: 5,646,126 [IMAGE AVAILABLE] L1: 40 of 75
DATE ISSUED: Jul. 8, 1997
TITLE: Sterol modified oligonucleotide duplexes having anticancer activity
INVENTOR: Yung-chi Cheng, Woodbridge, CT
Eugeny A. Lukhtanov, Bothell, WA
Rich B. Meyer, Jr., Woodinville, WA
Balakrishna S. Pai, New Haven, CT
Michael W. Reed, Seattle, WA
James H. Zhou, West Haven, CT
ASSIGNEE: Epoch Pharmaceuticals (U.S. corp.)
Yale University (U.S. corp.)
APPL-NO: 08/202,927
DATE FILED: Feb. 28, 1994
ART-UNIT: 189
PRIM-EXMR: George C. Elliott
ASST-EXMR: **Jeffrey Fredman**
LEGAL-REP: Klein & Szekeres, LLP

US PAT NO: 5,643,766 [IMAGE AVAILABLE] L1: 41 of 75
DATE ISSUED: Jul. 1, 1997
TITLE: Synthesis of full-length, double-stranded DNA from a single-stranded linear DNA template
INVENTOR: George Scheele, Brookline, MA
Shin-Ichi Fukuoka, Boston, MA
ASSIGNEE: Beth Israel Hospital Association, Boston, MA (U.S. corp.)
APPL-NO: 08/322,599
DATE FILED: Oct. 13, 1994
ART-UNIT: 189
PRIM-EXMR: George C. Elliott
ASST-EXMR: **Jeffrey Fredman**
LEGAL-REP: Fish & Richardson P.C.

US PAT NO: 5,643,763 [IMAGE AVAILABLE] L1: 42 of 75
DATE ISSUED: Jul. 1, 1997
TITLE: Method for making recombinant yeast artificial chromosomes by minimizing diploid doubling during mating
INVENTOR: Barbara Dunn, Los Altos, CA
Theodore K. Choi, Berkeley, CA
ASSIGNEE: Genpharm International, Inc., Mountain View, CA (U.S. corp.)
APPL-NO: 08/335,116
DATE FILED: Nov. 4, 1994
ART-UNIT: 189
PRIM-EXMR: George C. Elliott
ASST-EXMR: **Jeffrey Fredman**
LEGAL-REP: Cooley Godward LLP

US PAT NO: 5,643,729 [IMAGE AVAILABLE] L1: 43 of 75
DATE ISSUED: Jul. 1, 1997
TITLE: Methods for diagnosing cancer, precancerous state, or susceptibility to other forms of diseases by detecting an acceleration of exon skipping in IRF-1 mRNA
INVENTOR: Tadatsugu Taniguchi, Ibaraki, Japan
Hisashi Harada, Suita, Japan
ASSIGNEE: Boehringer Ingelheim International GmbH, Federal Republic of Germany (foreign corp.)
APPL-NO: 08/393,997
DATE FILED: Feb. 24, 1995
ART-UNIT: 187
PRIM-EXMR: Stephanie W. Zitomer
ASST-EXMR: **Jeffrey Fredman**
LEGAL-REP: Sterne, Kessler, Goldstein & Fox P.L.L.C.

US PAT NO: 5,641,658 [IMAGE AVAILABLE] L1: 44 of 75
DATE ISSUED: Jun. 24, 1997
TITLE: Method for performing amplification of nucleic acid with two primers bound to a single solid support
INVENTOR: Christopher P. Adams, Winter Hill, MA
Stephen Joseph Kron, Boston, MA
ASSIGNEE: Mosaic Technologies, Inc., Winter Hill, MA (U.S. corp.)
Whitehead Institute for Biomedical Research, Cambridge, MA (U.S. corp.)
APPL-NO: 08/285,385
DATE FILED: Aug. 3, 1994
ART-UNIT: 189
PRIM-EXMR: George C. Elliott
ASST-EXMR: **Jeffrey Fredman**
LEGAL-REP: Dann, Dorfman, Herrell and Skillman

US PAT NO: 5,639,871 [IMAGE AVAILABLE] L1: 45 of 75

DATE ISSUED: Jun. 17, 1997
TITLE: Detection of human papillomavirus by the polymerase chain reaction
INVENTOR: Heidi M. Bauer, San Francisco, CA
Patti E. Gravitt, Oakland, CA
Catherine E. Greer, Oakland, CA
Chaka C. Impraim, Danville, CA
M. Michele Manos, Baltimore, MD
Robert M. Resnick, Oakland, CA
Tracy Yi Zhang, Albany, CA
ASSIGNEE: Roche Molecular Systems, Inc., Branchburg, NJ (U.S. corp.)
APPL-NO: 08/457,648
DATE FILED: Jun. 1, 1995
ART-UNIT: 189
PRIM-EXMR: George C. Elliott
ASST-EXMR: **Jeffrey Fredman**
LEGAL-REP: George W. Johnston, Stacey R. Sias, Douglas A. Petry

US PAT NO: 5,637,462 [IMAGE AVAILABLE] L1: 46 of 75
DATE ISSUED: Jun. 10, 1997
TITLE: Cathepsin C homolog
INVENTOR: Roger Coleman, Mountain View, CA
Scott M. Braxton, San Mateo, CA
Jeffrey J. Seilhamer, Los Altos Hills, CA
ASSIGNEE: Incyte Pharmaceuticals, Inc., Palo Alto, CA (U.S. corp.)
APPL-NO: 08/426,428
DATE FILED: Apr. 19, 1995
ART-UNIT: 189
PRIM-EXMR: George C. Elliott
ASST-EXMR: **Jeffrey Fredman**
LEGAL-REP: Barbara J. Luther, Lucy J. Billings

US PAT NO: 5,637,460 [IMAGE AVAILABLE] L1: 47 of 75
DATE ISSUED: Jun. 10, 1997
TITLE: Restrained multifunctional reagent for surface modification
INVENTOR: Dale G. Swan, St. Louis Park, MN
Charles A. Hastings, Hopkins, MN
ASSIGNEE: BSI Corporation, Eden Prairie, MN (U.S. corp.)
APPL-NO: 08/344,570
DATE FILED: Nov. 23, 1994
ART-UNIT: 189
PRIM-EXMR: George C. Elliott
ASST-EXMR: **Jeffrey Fredman**
LEGAL-REP: Fredrikson & Byron, P.A.

US PAT NO: 5,633,362 [IMAGE AVAILABLE] L1: 48 of 75
DATE ISSUED: May 27, 1997
TITLE: Production of 1,3-propanediol from glycerol by recombinant bacteria expressing recombinant diol dehydratase
INVENTOR: Vasantha Nagarajan, Wilmington, DE
Charles E. Nakamura, Claymont, DE
ASSIGNEE: E. I. Du Pont de Nemours and Company, Wilmington, DE (U.S. corp.)
APPL-NO: 08/440,377
DATE FILED: May 12, 1995
ART-UNIT: 187
PRIM-EXMR: Stephanie W. Zitomer
ASST-EXMR: **Jeffrey Fredman**

US PAT NO: 5,631,128 [IMAGE AVAILABLE] L1: 49 of 75
DATE ISSUED: May 20, 1997
TITLE: Polymerase chain reaction assays for monitoring antiviral therapy and making therapeutic decisions in the treatment of acquired immunodeficiency syndrome
INVENTOR: Michael J. Kozal, Menlo Park, CA
Thomas C. Merigan, Portola Valley, CA
ASSIGNEE: Leland Stanford Junior University, Palo Alto, CA (U.S. corp.)
APPL-NO: 08/290,311
DATE FILED: Aug. 15, 1994
ART-UNIT: 189
PRIM-EXMR: George C. Elliott
ASST-EXMR: **Jeffrey Fredman**
LEGAL-REP: Pennie & Edmonds

US PAT NO: 5,624,798 [IMAGE AVAILABLE] L1: 50 of 75
DATE ISSUED: Apr. 29, 1997
TITLE: Detection method of nucleic acid by use of fluorescent pyrylium stain in intercalation into nucleic acids
INVENTOR: Nobuko Yamamoto, Isehara, Japan
Tadashi Okamoto, Yokohama, Japan
Yoshinori Tomida, Atsugi, Japan
Takeshi Miyazaki, Ebina, Japan
Masahiro Kawaguchi, Atsugi, Japan

ASSIGNEE: Canon Kabushiki Kaisha, Tokyo, Japan (foreign corp.)
APPL-NO: 08/170,689
DATE FILED: Dec. 21, 1993
ART-UNIT: 187
PRIM-EXMR: Stephanie W. Zitomer
ASST-EXMR: **Jeffrey Fredman**
LEGAL-REP: Fitzpatrick, Cella, Harper & Scinto

US PAT NO: 5,622,827 [IMAGE AVAILABLE] L1: 51 of 75
DATE ISSUED: Apr. 22, 1997
TITLE: Amplification primers and nucleic acid probes targeted to coccidioides immitis nucleic acid
INVENTOR: Diane L. McAllister, San Diego, CA
Kathleen A. Clark, Cardiff-By-The-Sea, CA
ASSIGNEE: Gen-Probe Incorporated, San Diego, CA (U.S. corp.)
APPL-NO: 08/384,541
DATE FILED: Feb. 7, 1995
ART-UNIT: 187
PRIM-EXMR: Stephanie W. Zitomer
ASST-EXMR: **Jeffrey Fredman**
LEGAL-REP: Lyon & Lyon

US PAT NO: 5,620,847 [IMAGE AVAILABLE] L1: 52 of 75
DATE ISSUED: Apr. 15, 1997
TITLE: Methods and reagents for detection of bacteria in cerebrospinal fluid
INVENTOR: Kay S. Greisen, Oakland, CA
Diane U. Leong, Berkeley, CA
ASSIGNEE: Hoffman-La Roche Inc., Nutley, NJ (U.S. corp.)
APPL-NO: 08/244,269
DATE FILED: May 16, 1994
ART-UNIT: 187
PRIM-EXMR: Stephanie W. Zitomer
ASST-EXMR: **Jeffrey Fredman**
LEGAL-REP: George W. Johnston, Patricia S. Rocha-Tramalon, Raina Seminow

US PAT NO: 5,610,016 [IMAGE AVAILABLE] L1: 53 of 75
DATE ISSUED: Mar. 11, 1997
TITLE: Method for measuring adenylyl group-containing substances using heteropoly-acid
INVENTOR: Naofumi Sato, Saitama, Japan
Kamon Shirakawa, Saitama, Japan
ASSIGNEE: Mochida Pharmaceutical Co., Ltd., Tokyo, Japan (foreign corp.)
APPL-NO: 08/413,279
DATE FILED: Mar. 30, 1995
ART-UNIT: 187
PRIM-EXMR: Bradley L. Sisson
ASST-EXMR: **Jeffrey Fredman**

US PAT NO: 5,605,797 [IMAGE AVAILABLE] L1: 54 of 75
DATE ISSUED: Feb. 25, 1997
TITLE: Bovine .beta.-mannosidase gene and methods of use
INVENTOR: Karen Friderici, Bath, MI
Margaret Z. Jones, East Lansing, MI
Hong Chen, Chapel Hill, NC
Kevin T. Cavanagh, Okemos, MI
ASSIGNEE: Board Of Trustees Operating Michigan State University, East Lansing, MI (U.S. corp.)
APPL-NO: 08/306,546
DATE FILED: Sep. 15, 1994
ART-UNIT: 187
PRIM-EXMR: Stephanie W. Zitomer
ASST-EXMR: **Jeffrey Fredman**
LEGAL-REP: Harness, Dickey & Pierce P.L.C.

US PAT NO: 5,602,243 [IMAGE AVAILABLE] L1: 55 of 75
DATE ISSUED: Feb. 11, 1997
TITLE: DCC probes, primers, and kits
INVENTOR: Bert Vogelstein, Baltimore, MD
ASSIGNEE: The Johns Hopkins University, Baltimore, MD (U.S. corp.)
APPL-NO: 08/442,761
DATE FILED: May 17, 1995
ART-UNIT: 187
PRIM-EXMR: Stephanie W. Zitomer
ASST-EXMR: **Jeffrey Fredman**
LEGAL-REP: Banner & Witcoff, Ltd.

US PAT NO: 5,599,918 [IMAGE AVAILABLE] L1: 56 of 75
DATE ISSUED: Feb. 4, 1997
TITLE: Nucleic acids encoding trophinin and trophinin-assisting proteins
INVENTOR: Michiko N. Fukuda, San Diego, CA

ASSIGNEE: La Jolla Cancer Research Foundation, La Jolla, CA (U.S. corp.)
APPL-NO: 08/317,522
DATE FILED: Oct. 4, 1994
ART-UNIT: 187
PRIM-EXMR: Stephanie W. Zitomer
ASST-EXMR: **Jeffrey Fredman**
LEGAL-REP: Campbell & Flores

US PAT NO: 5,599,695 [IMAGE AVAILABLE] L1: 57 of 75
DATE ISSUED: Feb. 4, 1997
TITLE: Printing molecular library arrays using deprotection agents solely in the vapor phase
INVENTOR: R. Fabian Pease, Stanford, CA
Glenn McGall, Mountain View, CA
Martin J. Goldberg, San Jose, CA
Richard P. Rava, Palo Alto, CA
Stephen P. A. Fodor, Palo Alto, CA
Virginia Goss, Santa Barbara, CA
Lubert Stryer, Stanford, CA
James L. Winkler, Sunnyvale, CA

ASSIGNEE: Affymetrix, Inc., Santa Clara, CA (U.S. corp.)
APPL-NO: 08/395,604
DATE FILED: Feb. 27, 1995
ART-UNIT: 187
PRIM-EXMR: W. Gary Jones
ASST-EXMR: **Jeffrey Fredman**
LEGAL-REP: Townsend & Townsend & Crew LLP

US PAT NO: 5,593,840 [IMAGE AVAILABLE] L1: 58 of 75
DATE ISSUED: Jan. 14, 1997
TITLE: Amplification of nucleic acid sequences
INVENTOR: Satish K. Bhatnagar, Gaithersburg, MD
Albert L. George, Jr., Gaithersburg, MD
Irina Nazarenko, Gaithersburg, MD
ASSIGNEE: Oncor, Inc., Gaithersburg, MD (U.S. corp.)
APPL-NO: 08/461,823
DATE FILED: Jun. 5, 1995
ART-UNIT: 187
PRIM-EXMR: Bradley L. Sisson
ASST-EXMR: **Jeffrey Fredman**
LEGAL-REP: Glenn E. Karta

US PAT NO: 5,593,833 [IMAGE AVAILABLE] L1: 59 of 75
DATE ISSUED: Jan. 14, 1997
TITLE: Assessment of allelic variation in vitamin D receptor correlated to bone density or turnover
INVENTOR: Nigel A. Morrison, Pagewood, Australia
John A. Eisman, Lindfield, Australia
Paul J. Kelly, Waverly, Australia
ASSIGNEE: Garvan Institute of Medical Research, Darlinghurst, Australia (foreign corp.)
APPL-NO: 08/379,496
DATE FILED: Mar. 2, 1995
ART-UNIT: 187
PRIM-EXMR: W. Gary Jones
ASST-EXMR: **Jeffrey Fredman**
LEGAL-REP: Rothwell, Figg, Ernst & Kurz

US PAT NO: 5,587,288 [IMAGE AVAILABLE] L1: 60 of 75
DATE ISSUED: Dec. 24, 1996
TITLE: Regulation of exoprotein in Staphylococcus aureus
INVENTOR: Ambrose Cheung, New York, NY
Vincent A. Fischetti, West Hempstead, NY
ASSIGNEE: The Rockefeller University, New York, NY (U.S. corp.)
APPL-NO: 08/248,505
DATE FILED: May 24, 1994
ART-UNIT: 187
PRIM-EXMR: W. Gary Jones
ASST-EXMR: **Jeffrey Fredman**
LEGAL-REP: Burns, Doane, Swecker & Mathis, L.L.P.

US PAT NO: 5,582,982 [IMAGE AVAILABLE] L1: 61 of 75
DATE ISSUED: Dec. 10, 1996
TITLE: Background-reducing compounds for probe-mediated fluorimetric flow cytometric assays
INVENTOR: Michael L. Cubbage, Houston, TX
Shyh C. Ju, Flowermound, TX
Nagindra Prashad, Houston, TX
William D. Weber, Bellaire, TX
Joel Bresser, Bellaire, TX
ASSIGNEE: Arogenex, Inc., Houston, TX (U.S. corp.)
APPL-NO: 08/243,597
DATE FILED: May 16, 1994
ART-UNIT: 187

PRIM-EXMR: W. Gary Jones
ASST-EXMR: **Jeffrey Fredman**
LEGAL-REP: Elman & Associates

US PAT NO: 5,580,727 [IMAGE AVAILABLE] L1: 62 of 75
DATE ISSUED: Dec. 3, 1996
TITLE: Aml1-MTg8 fusion protein resulting from T(8;21) translocation in acute myeloid leukemia
INVENTOR: Misao Ohki, Kokubunji, Japan
Kimiko Kikuchi, Tokyo, Japan
Hiroyuki Miyoshi, Ageo, Japan
Tomoko Kozu, Kitamoto, Japan
ASSIGNEE: SRL, Inc., Tokyo, Japan (foreign corp.)
APPL-NO: 08/244,189
DATE FILED: Aug. 15, 1994
ART-UNIT: 187
PRIM-EXMR: Stephanie W. Zitomer
ASST-EXMR: **Jeffrey Fredman**
LEGAL-REP: Birch, Stewart, Kolasch & Birch, LLP

US PAT NO: 5,578,458 [IMAGE AVAILABLE] L1: 63 of 75
DATE ISSUED: Nov. 26, 1996
TITLE: Mutation detection by competitive oligonucleotide priming
INVENTOR: Charles T. Caskey, Houston, TX
Richard A. L. Gibbs, Houston, TX
ASSIGNEE: Baylor College of Medicine, Houston, TX (U.S. corp.)
APPL-NO: 07/769,743
DATE FILED: Oct. 1, 1991
ART-UNIT: 187
PRIM-EXMR: W. Gary Jones
ASST-EXMR: **Jeffrey Fredman**
LEGAL-REP: Fulbright & Jaworski LLP

US PAT NO: 5,576,197 [IMAGE AVAILABLE] L1: 64 of 75
DATE ISSUED: Nov. 19, 1996
TITLE: Polymerase chain reaction container and methods of using the same
INVENTOR: Robert Arnold, San Diego, CA
ASSIGNEE: Molecular Bio-Products, San Diego, CA (U.S. corp.)
APPL-NO: 08/418,537
DATE FILED: Apr. 7, 1995
ART-UNIT: 187
PRIM-EXMR: Stephanie W. Zitomer
ASST-EXMR: **Jeffrey Fredman**
LEGAL-REP: Campbell & Flores LLP

US PAT NO: 5,571,702 [IMAGE AVAILABLE] L1: 65 of 75
DATE ISSUED: Nov. 5, 1996
TITLE: Amplification method for detection of human PF4A receptors
INVENTOR: James Lee, San Bruno, CA
William E. Holmes, Pacifica, CA
William I. Wood, San Mateo, CA
ASSIGNEE: Genentech, Inc., South San Francisco, CA (U.S. corp.)
APPL-NO: 08/410,455
DATE FILED: Mar. 24, 1995
ART-UNIT: 187
PRIM-EXMR: W. Gary Jones
ASST-EXMR: **Jeffrey Fredman**
LEGAL-REP: Richard B. Love

US PAT NO: 5,571,675 [IMAGE AVAILABLE] L1: 66 of 75
DATE ISSUED: Nov. 5, 1996
TITLE: Detection and amplification of candiotrophin-1(cardiac hypertrophy factor)
INVENTOR: Joffre Baker, El Granada, CA
Kenneth Chien, La Jolla, CA
Kathleen King, Pacifica, CA
Diane Pennica, Burlingame, CA
William Wood, San Mateo, CA
ASSIGNEE: Genentech, Inc., South San Francisco, CA (U.S. corp.)
Regents of the Univ. of California, Oakland, CA (U.S. corp.)
APPL-NO: 08/444,083
DATE FILED: May 17, 1995
ART-UNIT: 187
PRIM-EXMR: Stephanie W. Zitomer
ASST-EXMR: **Jeffrey Fredman**
LEGAL-REP: Timothy E. Torchia, Janet E. Hasak

US PAT NO: 5,561,044 [IMAGE AVAILABLE] L1: 67 of 75
DATE ISSUED: Oct. 1, 1996
TITLE: Detection of mycobacteria by multiplex strand displacement nucleic acid amplification
INVENTOR: George T. Walker, Chapel Hill, NC

James G. Nadeau, Chapel Hill, NC
Patricia A. Spears, Raleigh, NC
Colleen M. Nycz, Raleigh, NC
Daryl D. Shank, Durham, NC
James L. Schram, Knightdale, NC
Stewart R. Jurgensen, Raleigh, NC
ASSIGNEE: Becton, Dickinson and Company, Franklin Lakes, NJ (U.S. corp.)
APPL-NO: 08/398,305
DATE FILED: Mar. 3, 1995
ART-UNIT: 187
PRIM-EXMR: Stephanie W. Zitomer
ASST-EXMR: **Jeffrey Fredman**
LEGAL-REP: Donna R. Fugit

US PAT NO: 5,552,537 [IMAGE AVAILABLE] L1: 68 of 75
DATE ISSUED: Sep. 3, 1996
TITLE: IgE isoforms and methods of use
INVENTOR: Andrew Saxon, Santa Monica, CA
Ke Zhang, Los Angeles, CA
Edward E. Max, Bethesda, MD
ASSIGNEE: The Regents of the University of California, Oakland, CA (U.S. corp.)
APPL-NO: 08/037,579
DATE FILED: Mar. 24, 1993
ART-UNIT: 187
PRIM-EXMR: W. Gary Jones
ASST-EXMR: **Jeffrey Fredman**
LEGAL-REP: Bertram I. Rowland, Pamela J. Sherwood

US PAT NO: 5,552,536 [IMAGE AVAILABLE] L1: 69 of 75
DATE ISSUED: Sep. 3, 1996
TITLE: DNA encoding precursor of interleukin-1 beta converting enzyme - related cysteine proteinase III (ice rel-III)
INVENTOR: Donald W. Nicholson, Montreal, Canada
Ambercen Ali, Pierrefonds, Canada
Neil A. Munday, Guelph, Canada
John P. Vaillancourt, Pierrefonds, Canada
ASSIGNEE: Merck Frosst Canada, Inc., Quebec, Canada (foreign corp.)
APPL-NO: 08/224,930
DATE FILED: Apr. 8, 1994
ART-UNIT: 187
PRIM-EXMR: Stephanie W. Zitomer
ASST-EXMR: **Jeffrey Fredman**
LEGAL-REP: Christine E. Carty, Jack L. Tribble

US PAT NO: 5,552,284 [IMAGE AVAILABLE] L1: 70 of 75
DATE ISSUED: Sep. 3, 1996
TITLE: Detection of interleukin-8 receptors by nucleic acid hybridization
INVENTOR: James Lee, San Bruno, CA
William E. Holmes, Pacifica, CA
William I. Wood, San Mateo, CA
ASSIGNEE: Genentech, Inc., South San Francisco, CA (U.S. corp.)
APPL-NO: 08/410,451
DATE FILED: Mar. 24, 1995
ART-UNIT: 187
PRIM-EXMR: W. Gary Jones
ASST-EXMR: **Jeffrey Fredman**
LEGAL-REP: Richard B. Love

US PAT NO: 5,550,024 [IMAGE AVAILABLE] L1: 71 of 75
DATE ISSUED: Aug. 27, 1996
TITLE: Genetic markers for pig litter size
INVENTOR: Max F. Rothschild, Ames, IA
Christopher K. Tuggle, Ames, IA
Carol D. Jacobson, Ames, IA
David A. Vaske, Marshfield, WI
Alan J. Mileham, Huntingdon, United Kingdom
Graham S. Plastow, Soham, United Kingdom
ASSIGNEE: Biotechnology Research & Development Corporation, Peoria, IL (U.S. corp.)
Iowa State University Research Foundation, Inc., Ames, IA, a part interest (U.S. corp.)
APPL-NO: 08/312,312
DATE FILED: Sep. 26, 1994
ART-UNIT: 187
PRIM-EXMR: W. Gary Jones
ASST-EXMR: **Jeffrey Fredman**
LEGAL-REP: Zarley, McKee, Thomte, Voorhees, & Sease

US PAT NO: 5,536,649 [IMAGE AVAILABLE] L1: 72 of 75
DATE ISSUED: Jul. 16, 1996
TITLE: Decontamination of nucleic acid amplification reactions using uracil-N-glycosylase (UDG)

INVENTOR: Melinda S. Fraiser, Durham, NC
George T. Walker, Chapel Hill, NC
James L. Schram, Knightdale, NC
ASSIGNEE: Becton, Dickinson and Company, Franklin Lakes, NJ (U.S. corp.)
APPL-NO: 08/283,117
DATE FILED: Jul. 29, 1994
ART-UNIT: 187
PRIM-EXMR: W. Gary Jones
ASST-EXMR: **Jeffrey Fredman**
LEGAL-REP: Donna R. Fugit

US PAT NO: 5,521,299 [IMAGE AVAILABLE] L1: 73 of 75
DATE ISSUED: May 28, 1996
TITLE: Oligonucleotides for detection of baculovirus infection
INVENTOR: Chung-Hsiung Wang, Taipei, TAIWAN, PROVINCE OF CHINA
Chu-Fang Lo, Taipei, TAIWAN, PROVINCE OF CHINA
Guang-Hsung Kou, Taipei, TAIWAN, PROVINCE OF CHINA
Chang-Jen Huang, Taipei, TAIWAN, PROVINCE OF CHINA
Chih-Ming Chou, Taipei, TAIWAN, PROVINCE OF CHINA
ASSIGNEE: National Science Council, TAIWAN, PROVINCE OF CHINA (foreign corp.)
APPL-NO: 08/343,379
DATE FILED: Nov. 22, 1994
ART-UNIT: 187
PRIM-EXMR: W. Gary Jones
ASST-EXMR: **Jeffrey Fredman**
LEGAL-REP: Fish & Richardson

US PAT NO: 5,476,768 [IMAGE AVAILABLE] L1: 74 of 75
DATE ISSUED: Dec. 19, 1995
TITLE: Mycobacteriophage DSGA specific for the mycobacterium tuberculosis complex
INVENTOR: Robert E. Pearson, Durham, NC
Julie A. Dickson, Raleigh, NC
Paul T. Hamilton, Cary, NC
Michael C. Little, Raleigh, NC
Wayne F. Beyer, Jr., Bahama, NC
ASSIGNEE: Becton, Dickinson and Company, Franklin Lakes, NJ (U.S. corp.)
APPL-NO: 08/402,282
DATE FILED: Mar. 10, 1995
ART-UNIT: 187
PRIM-EXMR: W. Gary Jones
ASST-EXMR: **Jeffrey N. Fredman**
LEGAL-REP: Donna R. Fugit

US PAT NO: 5,472,844 [IMAGE AVAILABLE] L1: 75 of 75
DATE ISSUED: Dec. 5, 1995
TITLE: Methods of detection of Toxoplasma gondii P22 gene
INVENTOR: Fausto G. De Araujo, Palo Alto, CA
Jeffrey B. Prince, Mountain View, CA
Jack S. Remington, Menlo Park, CA
ASSIGNEE: Research Institute of Palo Alto Medical Foundation, Palo Alto, CA (U.S. corp.)
APPL-NO: 08/328,540
DATE FILED: Oct. 25, 1994
ART-UNIT: 187
PRIM-EXMR: Stephanie W. Zitomer
ASST-EXMR: **Jeffrey Fredman**
LEGAL-REP: Cooley Godward Castro Huddleson & Tatum

L4 ANSWER 3 OF 30 CAPLUS COPYRIGHT 1998 ACS

AN 1997:466289 CAPLUS

DN 127:186226

TI A homogeneous method to quantify mRNA levels: a hybridization of ***RNase*** ***protection*** and scintillation proximity assay technologies

AU Kenrick, Michael K.; Jiang, Lixin; Potts, Cheryl L.; Owen, Penny J.; Shuey, David J.; Econome, Jason G.; Anson, John G.; Quinet, Elaine M.

CS Cardiff Laboratories, Amersham International plc, Cardiff, CF4 7YT, UK

SO Nucleic Acids Res. (1997), 25(14), 2947-2948

CODEN NARHAD; ISSN: 0305-1048

PB Oxford University Press

DT Journal

LA English

AB A novel method to measure mRNA levels has been developed by combining the detection capabilities of ***RNase*** ***protection*** (RPA) with the quantification advantages of scintillation proximity assay (SPA) technol. Sample processing is reduced to the addn. of a single reagent post RNase digestion. As a model system, the inducible expression of rat apolipoprotein-A1 mRNA has been measured by both traditional gel-based RPAs and the SPA-based RPA assay. Results demonstrate that the ***RNase*** ***protection*** proximity assay (RiPPA) faithfully reproduces the gel-based results and is at least as sensitive as many existing methods

L4 ANSWER 9 OF 30 CAPLUS COPYRIGHT 1998 ACS DUPLICATE 7

AN 1996:260186 CAPLUS

DN 124:308768

TI Detection and quantitation of specific mRNAs by ribonuclease protection assay using denaturing horizontal polyacrylamide gel electrophoresis: a radioactive and nonradioactive approach

AU Plath, Annette; Peters, Friedolf; Einspanier, Ralf

CS Institut Physiologie, Forschungszentrum Milch Lebensmittel, Weihenstephan, Freising, D-85354, Germany

SO Electrophoresis (1996), 17(3), 471-2

CODEN ELCTDN; ISSN: 0173-0835

DT Journal

LA English

AB A radioactive (32P) and nonradioactive (***digoxigenin***) ***RNase*** ***protection*** assay (RPA) was developed to detect mRNAs of housekeeping proteins and growth factors. A modification of polyacrylamide gel electrophoresis (PAGE) to simplify RPA is described. Both Cleangels (Pharmacia) and lab-cast polyacrylamide gels, in a denaturing, horizontal electrophoresis system, were used. The amt. of toxic chems. and waste was reduced, in comparison with sequencing gels normally used for RPA. The protected RNA fragments were shown to be well sepd., with sufficient sensitivity in this modified, quick gel system.

L4 ANSWER 12 OF 30 CAPLUS COPYRIGHT 1998 ACS DUPLICATE 9

AN 1996:195412 CAPLUS

DN 124:252020

TI S1 ***nuclease*** ***protection*** assay using ***streptavidin*** dynabeads-purified single-stranded DNA

AU Cammas, Florence M.; Clark, Adrian J. L.

CS Dep. Chem. Endocrinol., St. Bartholomew's Hosp., Med. Coll., London, EC1A 7BE, UK

SO Anal. Biochem. (1996), 236(1), 182-4

CODEN ANBCA2; ISSN: 0003-2697

DT Journal

LA English

AB The main problem with S1 ***nuclease*** ***protection*** assays is the generation of a 32P end-labeled single-stranded DNA probe. The authors present a rapid and simple method to overcome this difficulty to make the assay a very attractive method for det. of gene structure. The method is based on the sepn. of double-stranded DNA after PCR with paramagnetic ***streptavidin*** dynabeads which have high affinity for the ***biotin*** moiety at the 5' end of the sense primer.

L4 ANSWER 14 OF 30 CAPLUS COPYRIGHT 1998 ACS

AN 1995:923905 CAPLUS

DN 123:334003

TI Detection of cyclin messenger RNAs by nonradioactive ribonuclease protection assay: a comparison of four detection methods

AU Nass, Sharyl J.; Dickson, Robert B.

CS Georgetown Univ., Washington, DC, USA

SO BioTechniques (1995), 19(5), 772-4, 776, 778

CODEN BTNQDO; ISSN: 0736-6205

AB Stable, nonradioactive riboprobes were used in ***RNase*** ***protection*** assays to monitor the changes in cyclin mRNA expression during cell cycle progression in human mammary epithelial cells. Probes labeled with ***biotin*** demonstrated sufficient sensitivity (comparable to 32P) to detect these low-abundance mRNAs and thus offer a safe and easy alternative to traditional

radioactive assays. Three detection systems based on chemiluminescence generated by horseradish peroxidase or alk. phosphatase were compared for sensitivity, background and ease of use.

L4 ANSWER 16 OF 30 CAPLUS COPYRIGHT 1998 ACS DUPLICATE 12

AN 1995:683440 CAPLUS

DN 123:166353

TI Increased mRNA expression of the receptor-like protein tyrosine phosphatase .alpha. in late stage colon carcinomas

AU Tabiti, Karim; Smith, Duncan R.; Goh, Hak-Su; Pallen, Catherine J.

CS Cell Regulation Laboratory, Institute of Molecular and Cell Biology, National University of Singapore, Singapore, 0511, Singapore

SO Cancer Lett. (Shannon, Irel.) (1995), 93(2), 239-48

CODEN CALEDQ; ISSN: 0304-3835

DT Journal

LA English

AB The protein tyrosine phosphatase .alpha. (PTP.alpha.) mRNA level in paired samples of late stage (Dukes' D) colorectal tumors and adjacent normal colon mucosa was quantified by ***RNase*** ***protection*** assays. After normalization against 18S RNA or .beta.-actin mRNA level, a 2 - 10-fold increase in PTP.alpha. mRNA was detected in 10 of 14 tumors (apprx. 70%) compared to mucosa. In situ hybridization of ***digoxigenin*** -labeled antisense PTP.alpha. RNA to tumor and mucosa sections produced a signal only in neoplastic cells of the tumor sample, consistent with the high increase in PTP.alpha. mRNA detected by ***RNase*** ***protection*** assays of some of the tumors. This is the first report suggesting an assoc. of a protein tyrosine phosphatase with colorectal carcinoma. PTP.alpha. is a receptor-like PTP thought to be involved in regulating cell proliferation. Its oncogenic properties when overexpressed in cultured fibroblasts suggest that PTP.alpha. overexpression could contribute to the tumorigenic process in colon carcinoma.

L4 ANSWER 19 OF 30 BIOSIS COPYRIGHT 1998 BIOSIS

AN 95:47176 BIOSIS

DN 98061476

TI Quantification of the mRNA of different cytokines in lysates of cultured synoviocytes by use of the ***digoxigenin*** - ***RNase*** ***protection*** assay.

AU Navarrete-Santos A.; Kehlen A.; Riemann D.; Langner J

CS Inst. Med. Immunol., MLU Halle, Halle, Germany

SO XXVth Meeting of the Society of Immunology, Konstanz, Germany, September 21-24, 1994. Immunobiology 191 (2-3), 1994. 270. ISSN: 0171-2985

DT Conference

LA English

L4 ANSWER 22 OF 30 CAPLUS COPYRIGHT 1998 ACS

AN 1994:49162 CAPLUS

DN 120:49162

TI Ribonuclease protection assay: use of ***biotinylated*** probes for the detection of two messenger RNAs

AU Turnbow, Marilyn A.; Garner, Charles W.

CS Health Sci. Cent., Texas Tech Univ., Lubbock, TX, 79430, USA

SO BioTechniques (1993), 15(2), 267-70

CODEN BTNQDO; ISSN: 0736-6205

DT Journal

LA English

AB A nonradioactive modification of the traditional ***RNase*** ***protection*** assay is described and applied to the detection of two mRNAs. The ***biotinylated*** probes are stable and easy to handle, which permits the processing of large nos. of samples. Chemiluminescence is generated with ***streptavidin*** -conjugated alk. phosphatase and provides sensitivity equal to or greater than that achieved with the radioactive detection method.

L4 ANSWER 24 OF 30 CAPLUS COPYRIGHT 1998 ACS

AN 1993:33667 CAPLUS

DN 118:33667

TI Nonradioactive ribonuclease protection analysis using digoxigenin labeling and chemiluminescent detection

AU Wundrack, Iris; Dooley, Steven

CS Inst. Hum. Genet., Saar Univ., Homburg/Saar, W-6650, Germany

SO Electrophoresis (Weinheim, Fed. Repub. Ger.) (1992), 13(9-10), 637-8

CODEN ELCTDN; ISSN: 0173-0835

AB A sensitive nonradioactive ***RNase*** ***protection*** assay is described which was used to study c-myc gene transcription and promoter usage in GLC4, a human small cell lung carcinoma cell line with amplified gene. For in vitro transcription digoxigenin (DIG)-rUTP was used instead of [alpha.-32P]CTP or [alpha.-32P]UTP and after polyacrylamide gel electrophoresis the protected probes were transferred to a nylon membrane from Boehringer Mannheim using electroblotting. Subsequently the membrane was analyzed by chemiluminescent detection. Results were obtained after 1 h of exposure and were comparable with those using radioactivity.

L1 ANSWER 1 OF 33 SCISEARCH COPYRIGHT 1998 ISI (R)
 AN 1998:317855 SCISEARCH
 GA The Genuine Article (R) Number: ZH855
 TI Factors impeding efficient expression of factor VIII complementary DNA minigenes
 AU Hoeben R C (Reprint); Fallaux F J; Schagen F H E; van der Eb M M; van Ormondt H; van der Eb A J
 CS LEIDEN UNIV, DEPT MOL CELL BIOL, APPL VIROL GRP, WASSENAAARSEWEG 72, NL-2333 AL LEIDEN, NETHERLANDS (Reprint); LEIDEN UNIV, DEPT SURG, LEIDEN, NETHERLANDS
 CYA NETHERLANDS
 SO BLOOD COAGULATION & FIBRINOLYSIS, (DEC 1997) Vol. 8, Supp. [2], pp. S15-S21.
 Publisher: RAPID SCIENCE PUBLISHERS, 2-6 BOUNDARY ROW, LONDON, ENGLAND SE1 8NH.
 ISSN: 0957-5235.
 DT Article; Journal
 FS LIFE
 LA English
 REC Reference Count: 74
 ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS
 Referenced Author |Year| VOL | PG | Referenced Work
 (RAU) |(RPY)|(RVL)|(RPG)| (RWK)
 =====
 FREDMAN J N |1993| 67 |3384| J VIROL <--
 =====
 L1 ANSWER 2 OF 33 SCISEARCH COPYRIGHT 1998 ISI (R)
 AN 1998:240176 SCISEARCH
 GA The Genuine Article (R) Number: ZC506
 TI Localization of human cytomegalovirus structural proteins to the nuclear matrix of infected human fibroblasts
 AU Sanchez V; Angeletti P C; Engler J A; Britt W J (Reprint)
 CS UNIV ALABAMA, DEPT MICROBIOL, 1600 7TH AVE S, SUITE 752, BIRMINGHAM, AL 35233 (Reprint); UNIV ALABAMA, DEPT MICROBIOL, BIRMINGHAM, AL 35233; UNIV ALABAMA, DEPT BIOCHEM & MOL GENET, BIRMINGHAM, AL 35233.
 UNIV ALABAMA, DEPT PEDIAT, BIRMINGHAM, AL 35233
 CYA USA
 SO JOURNAL OF VIROLOGY, (APR 1998) Vol. 72, No. 4, pp. 3321-3329.
 Publisher: AMER SOC MICROBIOLOGY, 1325 MASSACHUSETTS AVENUE, NW, WASHINGTON, DC 20005-4171.
 ISSN: 0022-538X.
 DT Article; Journal
 FS LIFE
 LA English
 REC Reference Count: 66
 ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS
 Referenced Author |Year| VOL | PG | Referenced Work
 (RAU) |(RPY)|(RVL)|(RPG)| (RWK)
 =====
 FREDMAN J N |1993| 67 |3384| J VIROL <--
 =====
 L1 ANSWER 3 OF 33 SCISEARCH COPYRIGHT 1998 ISI (R)
 AN 1998:240126 SCISEARCH
 GA The Genuine Article (R) Number: ZC506
 TI Adenovirus preterminal protein binds to the CAD enzyme at active sites of viral DNA replication on the nuclear matrix
 AU Angeletti P C; Engler J A (Reprint)
 CS UNIV ALABAMA, SCH MED, DEPT BIOCHEM & MOL GENET, ROOM 460, BASIC HLTH SCI BLDG, BIRMINGHAM, AL 35294 (Reprint); UNIV ALABAMA, SCH MED, DEPT BIOCHEM & MOL GENET, BIRMINGHAM, AL 35294; UNIV ALABAMA, SCH DENT, BIRMINGHAM, AL 35294
 CYA USA
 SO JOURNAL OF VIROLOGY, (APR 1998) Vol. 72, No. 4, pp. 2896-2904.
 Publisher: AMER SOC MICROBIOLOGY, 1325 MASSACHUSETTS AVENUE, NW, WASHINGTON, DC 20005-4171.
 ISSN: 0022-538X.
 DT Article; Journal
 FS LIFE
 LA English
 REC Reference Count: 69
 ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS
 Referenced Author |Year| VOL | PG | Referenced Work
 (RAU) |(RPY)|(RVL)|(RPG)| (RWK)
 =====
 FREDMAN J N |1991| 65 |4591| J VIROL <--
 FREDMAN J N |1993| 67 |3384| J VIROL <--
 =====
 L1 ANSWER 4 OF 33 SCISEARCH COPYRIGHT 1998 ISI (R)
 AN 1998:206804 SCISEARCH
 GA The Genuine Article (R) Number: ZA438
 TI Adenovirus DNA polymerase: domain organisation and interaction with

preterminal protein
 AU Parker E J; Botting C H; Webster A; Hay R T (Reprint)
 CS UNIV ST ANDREWS, SCH BIOMED SCI, IRVINE BLDG, NORTH ST, ST ANDREWS
 KY16 9AL, FIFE, SCOTLAND (Reprint); UNIV ST ANDREWS, SCH BIOMED SCI, ST ANDREWS KY16 9AL, FIFE, SCOTLAND
 CYA SCOTLAND
 SO NUCLEIC ACIDS RESEARCH, (1 MAR 1998) Vol. 26, No. 5, pp. 1240-1247.
 Publisher: OXFORD UNIV PRESS, GREAT CLARENDON ST, OXFORD, ENGLAND
 OX2 6DP.
 ISSN: 0305-1048.
 DT Article; Journal
 FS LIFE
 LA English
 REC Reference Count: 50
 ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS
 Referenced Author |Year| VOL | PG | Referenced Work
 (RAU) |(RPY)|(RVL)|(RPG)| (RWK)
 =====
 FREDMAN J N |1993| 67 |3384| J VIROL <--
 =====
 L1 ANSWER 5 OF 33 SCISEARCH COPYRIGHT 1998 ISI (R)
 AN 97:917647 SCISEARCH
 GA The Genuine Article (R) Number: YK361
 TI Adenoviral preterminal protein stabilizes mini-adenoviral genomes in vitro and in vivo
 AU Lieber A; He C Y; Kay M A (Reprint)
 CS UNIV WASHINGTON, DEPT MED, DIV MED GENET, SEATTLE, WA 98195 (Reprint); UNIV WASHINGTON, DEPT MED, DIV MED GENET, SEATTLE, WA 98195
 CYA USA
 SO NATURE BIOTECHNOLOGY, (DEC 1997) Vol. 15, No. 13, pp. 1383-1387.
 Publisher: NATURE PUBLISHING CO, 345 PARK AVE SOUTH, NEW YORK, NY 10010-1707.
 ISSN: 1087-0156.
 DT Article; Journal
 FS LIFE; AGRI
 LA English
 REC Reference Count: 30
 ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS
 Referenced Author |Year| VOL | PG | Referenced Work
 (RAU) |(RPY)|(RVL)|(RPG)| (RWK)
 =====
 FREDMAN J N |1993| 67 |3384| J VIROL <--
 =====
 L1 ANSWER 6 OF 33 SCISEARCH COPYRIGHT 1998 ISI (R)
 AN 97:734695 SCISEARCH
 GA The Genuine Article (R) Number: XY515
 TI Dissociation of the protein primer and DNA polymerase after initiation of adenovirus DNA replication
 AU King A J; Teertstra W R; van der Vliet P C (Reprint)
 CS UNIV UTRECHT, PHYSIOL CHEM LAB, POB 80042, NL-3508 TA UTRECHT, NETHERLANDS (Reprint); UNIV UTRECHT, PHYSIOL CHEM LAB, NL-3508 TA UTRECHT, NETHERLANDS
 CYA NETHERLANDS
 SO JOURNAL OF BIOLOGICAL CHEMISTRY, (26 SEP 1997) Vol. 272, No. 39, pp. 24617-24623.
 Publisher: AMER SOC BIOCHEMISTRY MOLECULAR BIOLOGY INC, 9650 ROCKVILLE PIKE, BETHESDA, MD 20814.
 ISSN: 0021-9258.
 DT Article; Journal
 FS LIFE
 LA English
 REC Reference Count: 32
 ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS
 Referenced Author |Year| VOL | PG | Referenced Work
 (RAU) |(RPY)|(RVL)|(RPG)| (RWK)
 =====
 FREDMAN J N |1993| 67 |3384| J VIROL <--
 =====
 L1 ANSWER 7 OF 33 SCISEARCH COPYRIGHT 1998 ISI (R)
 AN 97:617812 SCISEARCH
 GA The Genuine Article (R) Number: XQ799
 TI Role of preterminal protein processing in adenovirus replication
 AU Webster A; Leith I R; Nicholson J; Hounsell J; Hay R T (Reprint)
 CS UNIV ST ANDREWS, SCH BIOL & MED SCI, IRVINE BLDG, ST ANDREWS KY16 9AL, FIFE, SCOTLAND (Reprint); UNIV ST ANDREWS, SCH BIOL & MED SCI, ST ANDREWS KY16 9AL, FIFE, SCOTLAND
 CYA SCOTLAND
 SO JOURNAL OF VIROLOGY, (SEP 1997) Vol. 71, No. 9, pp. 6381-6389.
 Publisher: AMER SOC MICROBIOLOGY, 1325 MASSACHUSETTS AVENUE, NW, WASHINGTON, DC 20005-4171.
 ISSN: 0022-538X.
 DT Article; Journal
 FS LIFE

LA English

REC Reference Count: 53

ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS

Referenced Author |Year| VOL | PG | Referenced Work
(RAU) |(RPY)|(RVL)|(RPG)| (RWK)

FREDMAN J N	1991 65	4591 J VIROL	<--
FREDMAN J N	1993 67	3384 J VIROL	<--

L1 ANSWER 8 OF 33 SCISEARCH COPYRIGHT 1998 ISI (R)

AN 97:579567 SCISEARCH

GA The Genuine Article (R) Number: XN027

TI Advances in adenoviral vectors: from genetic engineering to their biology

AU Yeh P (Reprint); Perricaudet M

CS RHONE-POULENC RORER GENECOR, CNRS, URA 1301, LAB GENET VIRUS ONCOGENES, INST GUSTAVE ROUSSY, F-94805 VILLEJUIF, FRANCE (Reprint)

CYA FRANCE

SO FASEB JOURNAL, (JUL 1997) Vol. 11, No. 8, pp. 615-623.

Publisher: FEDERATION AMER SOC EXP BIOL, 9650 ROCKVILLE PIKE, BETHESDA, MD 20814-3998.
ISSN: 0892-6638.

DT General Review; Journal

FS LIFE

LA English

REC Reference Count: 50

ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS

Referenced Author |Year| VOL | PG | Referenced Work
(RAU) |(RPY)|(RVL)|(RPG)| (RWK)

FREDMAN J N	1993 67	3384 J VIROL	<--
-------------	----------	---------------	-----

L1 ANSWER 9 OF 33 SCISEARCH COPYRIGHT 1998 ISI (R)

AN 97:432645 SCISEARCH

GA The Genuine Article (R) Number: XB844

TI Initiation of bacteriophage phi 29 DNA replication in vivo: Assembly of a membrane-associated multiprotein complex

AU Bravo A; Salas M (Reprint)

CS AUTONOMOUS UNIV MADRID, CTR BIOL MOL SEVERO OCHOA, CSIC, CANTOBLANCO, E-28049 MADRID, SPAIN (Reprint); AUTONOMOUS UNIV MADRID, CTR BIOL MOL SEVERO OCHOA, CSIC, E-28049 MADRID, SPAIN

CYA SPAIN

SO JOURNAL OF MOLECULAR BIOLOGY, (30 MAY 1997) Vol. 269, No. 1, pp. 102-112.

Publisher: ACADEMIC PRESS LTD, 24-28 OVAL RD, LONDON, ENGLAND NW1 7DX.
ISSN: 0022-2836.

DT Article; Journal

FS LIFE

LA English

REC Reference Count: 43

ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS

Referenced Author |Year| VOL | PG | Referenced Work
(RAU) |(RPY)|(RVL)|(RPG)| (RWK)

FREDMAN J N	1993 67	3384 J VIROL	<--
-------------	----------	---------------	-----

L1 ANSWER 10 OF 33 SCISEARCH COPYRIGHT 1998 ISI (R)

AN 97:298409 SCISEARCH

GA The Genuine Article (R) Number: WT189

TI Bipartite structure and functional independence of adenovirus type 5 packaging elements

AU Schmid S I; Hearing P (Reprint)

CS SUNY STONY BROOK, HLTH SCI CTR, DEPT MOL GENET & MICROBIOL, STONY BROOK, NY 11794 (Reprint); SUNY STONY BROOK, HLTH SCI CTR, DEPT MOL GENET & MICROBIOL, STONY BROOK, NY 11794

CYA USA

SO JOURNAL OF VIROLOGY, (MAY 1997) Vol. 71, No. 5, pp. 3375-3384.

Publisher: AMER SOC MICROBIOLOGY, 1325 MASSACHUSETTS AVENUE, NW,

WASHINGTON, DC 20005-4171.

ISSN: 0022-538X.

DT Article; Journal

FS LIFE

LA English

REC Reference Count: 33

ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS

Referenced Author |Year| VOL | PG | Referenced Work
(RAU) |(RPY)|(RVL)|(RPG)| (RWK)

FREDMAN J N	1991 65	4591 J VIROL	<--
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L1 ANSWER 11 OF 33 SCISEARCH COPYRIGHT 1998 ISI (R)

AN 96:919604 SCISEARCH

GA The Genuine Article (R) Number: VX292

TI Domain organization of the adenovirus preterminal protein

AU Webster A; Leith I R; Hay R T (Reprint)

CS UNIV ST ANDREWS, SCH BIOL & MED SCI, IRVINE BLDG, ST ANDREWS KY16

9AL, FIFE, SCOTLAND (Reprint); UNIV ST ANDREWS, SCH BIOL & MED SCI, ST ANDREWS KY16 9AL, FIFE, SCOTLAND

CYA SCOTLAND

SO JOURNAL OF VIROLOGY, (JAN 1997) Vol. 71, No. 1, pp. 539-547.

Publisher: AMER SOC MICROBIOLOGY, 1325 MASSACHUSETTS AVENUE, NW,

WASHINGTON, DC 20005-4171.

ISSN: 0022-538X.

DT Article; Journal

FS LIFE

LA English

REC Reference Count: 49

ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS

Referenced Author |Year| VOL | PG | Referenced Work
(RAU) |(RPY)|(RVL)|(RPG)| (RWK)

FREDMAN J N	1991 65	4591 J VIROL	<--
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FREDMAN J N	1993 67	3384 J VIROL	<--
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L1 ANSWER 12 OF 33 SCISEARCH COPYRIGHT 1998 ISI (R)

AN 96:861057 SCISEARCH

GA The Genuine Article (R) Number: VT704

TI Recombinant adenoviruses with large deletions generated by cre-mediated excision exhibit different biological properties compared with first-generation vectors in vitro and in vivo

AU Lieber A; He C Y; Kirillova I; Kay M A (Reprint)

CS UNIV WASHINGTON, DEPT MED, DIV MED GENET, BOX 357720, SEATTLE, WA 98195 (Reprint); UNIV WASHINGTON, DEPT MED, DIV MED GENET, SEATTLE, WA 98195; UNIV WASHINGTON, DEPT PATHOL, SEATTLE, WA 98195; UNIV WASHINGTON, DEPT BIOCHEM, SEATTLE, WA 98195; UNIV WASHINGTON, DEPT

WA

98195 (Reprint); UNIV WASHINGTON, DEPT MED, DIV MED GENET, SEATTLE, WA 98195; UNIV WASHINGTON, DEPT PATHOL, SEATTLE, WA 98195; UNIV WASHINGTON, DEPT BIOCHEM, SEATTLE, WA 98195; UNIV WASHINGTON, DEPT

PEDIAT, SEATTLE, WA 98195

CYA USA

SO JOURNAL OF VIROLOGY, (DEC 1996) Vol. 70, No. 12, pp. 8944-8960.

Publisher: AMER SOC MICROBIOLOGY, 1325 MASSACHUSETTS AVENUE, NW,

WASHINGTON, DC 20005-4171.

ISSN: 0022-538X.

DT Article; Journal

FS LIFE

LA English

REC Reference Count: 66

ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS

Referenced Author |Year| VOL | PG | Referenced Work
(RAU) |(RPY)|(RVL)|(RPG)| (RWK)

FREDMAN J N	1993 67	3384 J VIROL	<--
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L1 ANSWER 13 OF 33 SCISEARCH COPYRIGHT 1998 ISI (R)

AN 96:636071 SCISEARCH

GA The Genuine Article (R) Number: VD707

TI MAPPING FUNCTIONAL DOMAINS IN ACMNPV PP31

AU BROUSSARD D R; GUARINO L A; JARVIS D L (Reprint)

CS TEXAS A&M UNIV, DEPT ENTOMOL, COLLEGE STN, TX, 77843 (Reprint); TEXAS A&M UNIV, DEPT ENTOMOL, COLLEGE STN, TX, 77843; TEXAS A&M UNIV, DEPT BIOL, COLLEGE STN, TX, 77843; TEXAS A&M UNIV, CTR ADV INVERTEBRATE MOL SCI, COLLEGE STN, TX, 77843

CYA USA

SO VIROLOGY, (15 AUG 1996) Vol. 222, No. 2, pp. 318-331.

ISSN: 0042-6822.

DT Article; Journal

FS LIFE

LA ENGLISH

REC Reference Count: 60

ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS

Referenced Author |Year| VOL | PG | Referenced Work
(RAU) |(RPY)|(RVL)|(RPG)| (RWK)

FREDMAN J N	1993 67	3384 J VIROL	<--
-------------	----------	---------------	-----

L1 ANSWER 14 OF 33 SCISEARCH COPYRIGHT 1998 ISI (R)

AN 96:597741 SCISEARCH

GA The Genuine Article (R) Number: VB037

TI FUNCTIONAL ARCHITECTURE OF CHROMOSOMAL DNA DOMAINS

AU RAZIN S V (Reprint)

CS RAS, INST GENE BIOL, MOSCOW 117334, RUSSIA; INT CTR GENET ENGN & BIOTECHNOL, I-34012 TRIESTE, ITALY

CYA RUSSIA; ITALY

SO CRITICAL REVIEWS IN EUKARYOTIC GENE EXPRESSION, (1996) Vol. 6, No. 2-3, pp. 247-269.

ISSN: 1045-4403.

DT General Review; Journal

LA ENGLISH

REC Reference Count: 161

ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS

Referenced Author |Year| VOL | PG | Referenced Work
(RAU) |(RPY)|(RVL)|(RPG)| (RWK)

FREDMAN J N	1993 67	3384 J VIROL	<--
-------------	----------	---------------	-----

STANFORD,
CA, 94305; WAKE FOREST UNIV, BOWMAN GRAY SCH MED, DEPT
MICROBIOL &
IMMUNOL, WINSTON SALEM, NC, 27157

CYA USA

SO JOURNAL OF VIROLOGY, (JUL 1995) Vol. 69, No. 7, pp. 4079-4085.
ISSN: 0022-538X.

DT Article; Journal

FS LIFE

LA ENGLISH

REC Reference Count: 34

ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS

Referenced Author |Year| VOL | PG | Referenced Work

(RAU) |(RPY)|(RVL)|(RPG)| (RWK)

FREDMAN J N |1993| 67 | 3384 | J VIROL <--

L1 ANSWER 23 OF 33 SCISEARCH COPYRIGHT 1998 ISI (R)

AN 95:360529 SCISEARCH

GA The Genuine Article (R) Number: QY819

TI PROLINE-137 IS CRITICAL FOR ADENOVIRUS PROTEASE ENCAPSIDATION
AND

ACTIVATION BUT NOT ENZYME-ACTIVITY

AU RANCOURT C; KEYVANIANE H; SIRCAR S; LABRECQUE P; WEBER J
M

(Reprint)

CS UNIV SHERBROOKE, FAC MED, DEPT MICROBIOL, SHERBROOKE, PQ J1H
5N4,

CANADA (Reprint); UNIV SHERBROOKE, FAC MED, DEPT MICROBIOL,
SHERBROOKE, PQ J1H 5N4, CANADA

CYA CANADA

SO VIROLOGY, (10 MAY 1995) Vol. 209, No. 1, pp. 167-173.

ISSN: 0042-6822.

DT Article; Journal

FS LIFE

LA ENGLISH

REC Reference Count: 33

ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS

Referenced Author |Year| VOL | PG | Referenced Work

(RAU) |(RPY)|(RVL)|(RPG)| (RWK)

FREDMAN J N |1993| 67 | 3384 | J VIROL <--

L1 ANSWER 24 OF 33 SCISEARCH COPYRIGHT 1998 ISI (R)

AN 95:90179 SCISEARCH

GA The Genuine Article (R) Number: BB94F

TI ADENOVIRUS ENDOPEPTIDASES

AU WEBER J M (Reprint); TIHANYI K

CS CHU SHERBROOKE, DEPT MICROBIOL, SHERBROOKE, PQ J1H 5N4,
CANADA

(Reprint)

CYA CANADA

SO METHODS IN ENZYMOLOGY, (1994) Vol. 244, pp. 595-604.

ISSN: 0076-6879

DT General Review; Journal

FS LIFE

LA ENGLISH

REC Reference Count: 23

Referenced Author |Year| VOL | PG | Referenced Work

(RAU) |(RPY)|(RVL)|(RPG)| (RWK)

FREDMAN J N |1993| 67 | 3384 | J VIROL <--

L1 ANSWER 25 OF 33 SCISEARCH COPYRIGHT 1998 ISI (R)

AN 94:734337 SCISEARCH

GA The Genuine Article (R) Number: PR206

TI ADENOVIRUS REPLICATION AND TRANSCRIPTION SITES ARE SPATIALLY
SEPARATED IN THE NUCLEUS OF INFECTED-CELLS

AU POMBO A; FERREIRA J; BRIDGE E; CARMOFONSECA M (Reprint)

CS UNIV LISBON, FAC MED, INST HISTOL & EMBRYOL, P-1699 LISBON,
PORTUGAL

(Reprint); UNIV LISBON, FAC MED, INST HISTOL & EMBRYOL, P-1699
LISBON, PORTUGAL; UPPSALA UNIV, CTR BIOMED, DEPT MED GENET,
S-75123

UPPSALA, SWEDEN

CYA PORTUGAL; SWEDEN

SO EMBO JOURNAL, (01 NOV 1994) Vol. 13, No. 21, pp. 5075-5085.

ISSN: 0261-4189.

DT Article; Journal

FS LIFE

LA ENGLISH

REC Reference Count: 60

ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS

Referenced Author |Year| VOL | PG | Referenced Work

(RAU) |(RPY)|(RVL)|(RPG)| (RWK)

FREDMAN J N |1993| 67 | 3384 | J VIROL <--

L1 ANSWER 26 OF 33 SCISEARCH COPYRIGHT 1998 ISI (R)

AN 94:665930 SCISEARCH

GA The Genuine Article (R) Number: PL736

TI ACTIVATION OF ADENOVIRUS-CODED PROTEASE AND PROCESSING OF
PRETERMINAL PROTEIN

AU WEBSTER A; LEITH I R; HAY R T (Reprint)

CS UNIV ST ANDREWS, SCH BIOL & MED SCI, IRVINE BLDG, ST ANDREWS
KY16

9AL, FIFE, SCOTLAND (Reprint); UNIV ST ANDREWS, SCH BIOL & MED SCI,
ST ANDREWS KY16 9AL, FIFE, SCOTLAND

CYA SCOTLAND

SO JOURNAL OF VIROLOGY, (NOV 1994) Vol. 68, No. 11, pp. 7292-7300.

ISSN: 0022-538X.

DT Article; Journal

FS LIFE

LA ENGLISH

REC Reference Count: 52

ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS

Referenced Author |Year| VOL | PG | Referenced Work

(RAU) |(RPY)|(RVL)|(RPG)| (RWK)

FREDMAN J N |1991| 65 | 4591 | J VIROL <--
FREDMAN J N |1993| 67 | 3384 | J VIROL <--

L1 ANSWER 27 OF 33 SCISEARCH COPYRIGHT 1998 ISI (R)

AN 93:515796 SCISEARCH

GA The Genuine Article (R) Number: LT255

TI MULTIPLE FUNCTIONS OF THE ADENOVIRUS DNA-BINDING PROTEIN ARE
REQUIRED FOR EFFICIENT VIRAL-DNA SYNTHESIS

AU BROUGH D E; DROGUETT G; HORWITZ M S; KLESSIG D F (Reprint)

CS RUTGERS UNIV, WAKSMAN INST, POB 759, PISCATAWAY, NJ, 08855;

YESHIVA

UNIV ALBERT EINSTEIN COLL MED, DEPT MICROBIOL IMMUNOL, BRONX,
NY,

10461; YESHIVA UNIV ALBERT EINSTEIN COLL MED, DEPT CELL BIOL,
BRONX,

NY, 10461; YESHIVA UNIV ALBERT EINSTEIN COLL MED, DEPT PEDIAT,
BRONX, NY, 10461

CYA USA

SO VIROLOGY, (SEP 1993) Vol. 196, No. 1, pp. 269-281.

ISSN: 0042-6822.

DT Article; Journal

FS LIFE

LA ENGLISH

REC Reference Count: 87

Referenced Author |Year| VOL | PG | Referenced Work

(RAU) |(RPY)|(RVL)|(RPG)| (RWK)

FREDMAN J N |1991| 65 | 4591 | J VIROL <--

L1 ANSWER 28 OF 33 SCISEARCH COPYRIGHT 1998 ISI (R)

AN 93:367936 SCISEARCH

GA The Genuine Article (R) Number: LF503

TI THE ADENOVIRUS TERMINAL PROTEIN INFLUENCES BINDING OF
REPLICATION

PROTEINS AND CHANGES THE ORIGIN STRUCTURE

AU PRONK R; VANDERVLIEET P C (Reprint)

CS UNIV UTRECHT, PHYSIOL CHEM LAB, VONDELLAAN 24A, 3521 GG
UTRECHT,

NETHERLANDS

CYA NETHERLANDS

SO NUCLEIC ACIDS RESEARCH, (25 MAY 1993) Vol. 21, No. 10, pp.
2293-2300.

ISSN: 0305-1048.

DT Article; Journal

FS LIFE

LA ENGLISH

REC Reference Count: 44

ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS

Referenced Author |Year| VOL | PG | Referenced Work

(RAU) |(RPY)|(RVL)|(RPG)| (RWK)

FREDMAN J N |1991| 65 | 4591 | J VIROL <--

L1 ANSWER 29 OF 33 SCISEARCH COPYRIGHT 1998 ISI (R)

AN 93:323188 SCISEARCH

GA The Genuine Article (R) Number: LB794

TI ADENOVIRUS PRECURSOR TO TERMINAL PROTEIN INTERACTS WITH THE
NUCLEAR

MATRIX INVIVO AND INVITRO

AU FREDMAN J N; ENGLER J A (Reprint)

CS UNIV ALABAMA, DEPT BIOCHEM, BIRMINGHAM, AL, 35294

CYA USA

SO JOURNAL OF VIROLOGY, (JUN 1993) Vol. 67, No. 6, pp. 3384-3395.

ISSN: 0022-538X.

DT Article; Journal

FS LIFE

LA ENGLISH

REC Reference Count: 64

ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS

Referenced Author |Year| VOL | PG | Referenced Work

(RAU) |(RPY)|(RVL)|(RPG)| (RWK)

FREDMAN J N |1991|65|4591|J VIROL <--
FREDMAN J N | | | UNPUB <--

L1 ANSWER 30 OF 33 SCISEARCH COPYRIGHT 1998 ISI (R)
AN 93:33394 SCISEARCH
GA The Genuine Article (R) Number: KF854
TI ADENOVIRUS DNA-REPLICATION - THE FUNCTION OF THE COVALENTLY
BOUND
TERMINAL PROTEIN
AU PRONK R, STUIVER M H; VANDERVLIEET P C (Reprint)
CS UNIV UTRECHT, PHYSIOL CHEM LAB, VONDELLAAN 24A, 3521 GG
UTRECHT,
NETHERLANDS

CYA NETHERLANDS
SO CHROMOSOMA, (1992) Vol. 102, No. 1, Supp. S, pp. S39-S45.
ISSN: 0009-5915.

DT Article; Journal
FS LIFE
LA ENGLISH

REC Reference Count: 28
ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS
Referenced Author |Year| VOL | PG | Referenced Work
(RAU) |(RPY)|(RVL)|(RPG) | (RWK)

FREDMAN J N |1991|65|4591|J VIROL <--

L1 ANSWER 31 OF 33 SCISEARCH COPYRIGHT 1998 ISI (R)
AN 93:1336 SCISEARCH
GA The Genuine Article (R) Number: KB970
TI ANALYSIS OF THE ADENOVIRUS TYPE-5 TERMINAL
PROTEIN-PRECURSOR AND
DNA-POLYMERASE BY LINKER INSERTION MUTAGENESIS
AU ROOVERS D J; VANDERLEE F M; VANDERWEES J; SUSSENBACH J S
(Reprint)
CS UNIV UTRECHT, PHYSIOL CHEM LAB, VONDELLAAN 24A, 3521 GG
UTRECHT,
NETHERLANDS

CYA NETHERLANDS
SO JOURNAL OF VIROLOGY, (JAN 1993) Vol. 67, No. 1, pp. 265-276.
ISSN: 0022-538X.

DT Article; Journal
FS LIFE
LA ENGLISH

REC Reference Count: 61
ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS
Referenced Author |Year| VOL | PG | Referenced Work
(RAU) |(RPY)|(RVL)|(RPG) | (RWK)

FREDMAN J N |1991|65|4591|J VIROL <--

L1 ANSWER 32 OF 33 SCISEARCH COPYRIGHT 1998 ISI (R)
AN 92:639798 SCISEARCH
GA The Genuine Article (R) Number: JU681
TI MATURATION OF ALDOSE REDUCTASE EXPRESSION IN THE NEONATAL
RAT INNER
MEDULLA
AU SCHWARTZ G J (Reprint); ZAVILOWITZ B J; RADICE A D; GARCIAPEREZ A;
SANDS J M
CS YESHIVA UNIV ALBERT EINSTEIN COLL MED, DEPT PEDIAT, BRONX, NY,
10461; YESHIVA UNIV ALBERT EINSTEIN COLL MED, DEPT MOLEC GENET,
BRONX, NY, 10461; NHLBI, KIDNEY & ELECTROLYTE METAB LAB,
BETHESDA,
MD, 20892; EMORY UNIV, SCH MED, DEPT MED, DIV RENAL, ATLANTA, GA,
30322

CYA USA
SO JOURNAL OF CLINICAL INVESTIGATION, (OCT 1992) Vol. 90, No. 4, pp.
1275-1283.
ISSN: 0021-9738.

DT Article; Journal
FS LIFE
LA ENGLISH

REC Reference Count: 31
ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS
Referenced Author |Year| VOL | PG | Referenced Work
(RAU) |(RPY)|(RVL)|(RPG) | (RWK)

FREDMAN J N |1991|65|4591|J VIROL <--

L1 ANSWER 33 OF 33 SCISEARCH COPYRIGHT 1998 ISI (R)
AN 92:553151 SCISEARCH
GA The Genuine Article (R) Number: JN267
TI MUTATIONS IN 2 CYSTEINE-HISTIDINE-RICH CLUSTERS IN ADENOVIRUS
TYPE-2
DNA-POLYMERASE AFFECT DNA-BINDING
AU JOUNG I; ENGLER J A (Reprint)
CS UNIV ALABAMA, DEPT BIOCHEM, BIRMINGHAM, AL, 35294; UNIV
ALABAMA, SCH
MED, BIRMINGHAM, AL, 35294; UNIV ALABAMA, SCH DENT, BIRMINGHAM,
AL,

35294

CYA USA
SO JOURNAL OF VIROLOGY, (OCT 1992) Vol. 66, No. 10, pp. 5788-5796.
ISSN: 0022-538X.

DT Article; Journal
FS LIFE
LA ENGLISH

REC Reference Count: 53
ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS
Referenced Author |Year| VOL | PG | Referenced Work
(RAU) |(RPY)|(RVL)|(RPG) | (RWK)

FREDMAN J N | | | UNPUB <--